

OLE VIRGINIA TIMES

March 2018

Next Meeting: Tuesday, March 20, 2018

PRESIDENT'S LETTER:

I hope everyone is having a good March even though the weather has gotten colder. The weather played a fast one on us by giving us spring-like weather and then turning colder. I am definitely looking forward to the warmer weather. With the warmer weather we can look forward to the many events that will be taking place.

There is a Tri-It-Now on the 25th of this month. It is the perfect event for those new to the hobby. It gives you experience communicating using a net control which is what is used for most emergency situations. If you are worried about talking on the radio, come out and shadow one of the other volunteers who will help you learn proper technique and give you confidence in talking over the radio. Look for a message from Andy / KJ4MTP on the reflector to sign up. If you aren't able to make it to this one, there will be more in the coming months through to November. Of course, there are several events this coming weekend too: both the Virginia QSO Party on Saturday and Sunday, and Winterfest on Sunday morning.

There is a possibility of a bicycle ride for a veteran's service group called, Serve our Willing Warriors. The Warrior Bike Ride would be on May 5th, which is the same as the Manassas Airshow. I believe it would be another great opportunity for us to get our club out in the public view along with serving our veterans. Andy / KJ4MTP, who heads up the Mini Tri's, is assessing the support needs for the ride. We will know shortly (thanks Kevin / KX4KU) whether the OVH will be an exhibitor again at the Manassas Airshow.

I would like to take a few sentences to thanks the many club volunteers that make this club run. I know from working with the Boy Scouts for the past 32 years how important volunteers are to making the organization a great one, and I think our club is a great

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Ole Virginia Hams Amateur Radio Club, Inc.

Post Office Box 1255
Manassas, Virginia 20108

OFFICERS

President:	Byron Dillon	AK4XR	222-2095
Vice Pres:	Jeff Fuller	WB6UIE	791-5916
Secretary:	Sandy Knight	KM4JUS	930-8164
Treasurer:	Terry Erlacher	KC4DV	571-292-1490

DIRECTORS

Don (Butch) Blasdel	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 2018 - Chairman

Don	WA2SWX	597-3211
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FIELD DAY 2017 s

Byron	AK4XR	222-2095
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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		http://pwcares.org

FINANCE

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

GENERATORS

Steve	N4OGR	361-0008
Al	KB4BHB	368-4794

HISTORIAN

Theresa	KG4TVM	257-3566
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CO-WEBMASTERS — W4OVH.NET

Kevin	KX4KU	540-439-3289
Andy	KJ4MTP	786-4651

TWITTER & FACEBOOK ACCOUNT MODERATOR

Jeff	KM4FTK	830-4155
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EMAIL REFLECTOR — w4ovh@googlegroups.com

David Lane	KG4GIY	628-3868
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JOTA - 2018

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.	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

John	KG4NXT	257-3566
Ken	KE2N	753-8587
George	K4GVT	791-5956
Arthur	W1CRO	791-4330
Butch	W4HJL	369-2877
Steve	N4OGR	361-0008
David	KG4GIY	361-3042

W4OVH — TRUSTEE

Stu	W4PR	335-5267
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W4PVA — TRUSTEE

Arthur	W1CRO	791-4330
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SCHOLARSHIP

Sandy Knight	KM4JUS	930-8164
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SUNSHINE

Theresa	KG4TVM	257-3566
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TECHNICAL COMMITTEE

Ken	KE2N	753-8587
Andy	KJ4MTP	786-4651
George	K4GVT	791-5956
Arthur	W1CRO	791-4330
Butch	W4HJL	369-2877
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 © 2018 by the Ole Virginia Hams.

The OVH ARC regular monthly meeting is at 7:30 p.m. every third Tuesday at the Buckhall Volunteer Fire Department Station, 7190 Yates Ford Road, 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 operating with limited D-Star capabilities. 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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club because of the volunteers. I joined the club after getting my license in 2013 because I knew that there was much more to learn and I found that the best way to learn was to volunteer for the various events. So, if you are new to the hobby or getting rusty, volunteer for one of the many events in which the club participates.

The next regular OVH will be held on Tuesday, March 20th, at 7:30 pm in the conference room at the Buckhall Fire Station, Manassas. Hope to see you there. Happy Saint Patrick Day!

73 BYRON AK4XR

Sunshine Corner:

Happy birthday wishes for March to the following OVH club members: Fred / N3KVV, George / NT4DX, Scott / KM4FTD, Gary / K4MRL and Jeff / N1SN.

Congratulations to our new OVH club officers for 2018! Byron / AK4XR, President; Jeff / WB6UIE, Vice President; Terry / KC4DV, Treasurer and Sandy / KM4JUS, Secretary. Your service will be greatly appreciated by all members of the OVH.

Hope to hear you on the air this weekend for the Virginia QSO Party, please don't forget to turn in you logs and list the OVH as your club! More info in the Reminders column.

End of March will be very busy, Virginia QSO Party and Vienna Winterfest - both this coming weekend; Soon after, the Mini Tri event and more meetings!

Field Day 2018 is ramping up, please contact chairman Byron / AK4XR to get the details, his email is ak4xr@dillonelectric.com

Hamfest – planning meetings are ongoing each month, please contact chairman Don / WA2SWX to help with this event. His email is wa2swxdm@gmail.com Butch / W4HJL was at the Hamfest meeting earlier this week and was looking good.

Also, please check out the club web site (W4OVH.NET), the Twitter and Facebook pages (both W4OVH) for up to date information. For those who are not Twitter or Facebook user, the OVH closed email reflector also has up to date information.

Please try to check in to the Thursday night VHF/UHF FM net. You will hear updates and information on everything going on! How to do that is on the OVH web site at <http://w4ovh.net>. You will find us on the 146.970 and 442.200 FM repeaters at 8:00 PM every Thursday evening.

Happy St. Patrick's Day!

73 Theresa KG4TVM

Minutes of the Ole Virginia Hams Amateur Radio Club Meeting held on February 20, 2018:

OVH President Ray KM4EKR, called the meeting to order at 7:30 pm on February 20, 2018 in the main conference room at the Buckhall Volunteer Fire Department Station.

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After the Pledge of Allegiance, all present stated their names and call signs. There were OVH 30 members and no guests.

Presentation-about the Virginia QSO Party by Gordon Miller, NQ4K. It begins on March 17 2018 at 10am through 12 midnight, and again on March 18, 2018 from 8 am – 8pm. Make sure you enter your club affiliation “OVH” on your contact log that you submit.

Minutes: The minutes for the January 2018 meeting went out in the February newsletter. Al / KB4BHB made a motion to accept the minutes which included a correction of a call sign. John . KG4NXT seconded the motion which passed.

Treasurer’s report was made by Terry / KC4DV. Motion to accept the report by Bob / K4HJF. Seconded by Andy / KJ4MTP. Motion passed.

Membership - Luther / WA4FMO made a motion to vote in Richard North (no call), Harry Zint / KN4IJY, and Ken Brant / KN4HHO. Theresa / KG4TVM, seconded the motion. They were all voted in as new OVH members. Luther then read in new membership applications from Christopher Barnes / KN4IJF, Robert McGregor / KG4EHL, and James Gaetjin, (no call) who will be voted on at the March meeting. .

ARES - no report this month.

Training - Mark WA4KFZ reported that the online Technician license class had begun and was continuing with four sessions left. The one hour online sessions are working well.

Scholarship - SANDY KM4JUS reported that the Scholarship application form is on the web site and has been sent out to the high schools.

Hamfest - Don / WA2SWX reported that ne and Theresa / KG4TVM, handed out flyers for the Manassas Hamfest during the Richmond Hamfest. The OVH will have a table at the upcoming Winterfest. We also have a table at the upcoming Maker Fair event which Don / WA2SWX will be attending. The ARRL section leader Dr. Joe Polsa will attend our hamfest. They also still need volunteers for the consignment table.

Field Day - Byron / AK4XR reported that all preparations are going well. We have volunteers for everything except satellite communications. So if anyone is interested in giving it a try let us know.

Sunshine- Theresa / KG4TVM, brought candy for everyone. She also handed out insulated mugs to the officers of the club.

JOTA-- not until next fall, no report.

Election results - Byron / AK4XR was elected new President, with Jeff / WB6UIE re-elected as Vice-President, Terry / KC4DV re-elected as Treasurer and Sandy / KM4JUS elected as new Secretary.

2018 Manassas Airshow - Kevin / KX4KU volunteered to be the lead for this event in early May, several others volunteers to assist.

Web Site (W4OVH.NET) - Andy / KJ4MTP, reported that the OVH web site went down for a very brief time; Kevin / KX4KU was notified and corrected the issue.

Tri-It Now - Andy / KJ4MTP reported that the next event will be on early morning on March 25th. Volunteers are needed again to man (woman) the course. This is the perfect event for those new to the hobby. Look for more information on the reflector.

50-50 – John KG4NXT won the 50/50 drawing and donated his half back to the club. \$22 was raised.

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

Reminders about some upcoming events / calendar dates:

HAMFESTS

March 18, 2018 (Sunday) - early morning through midday - Winterfest put on by Vienna Wireless at the NVCC Annandale Campus. See flyer later in this Newsletter.

May 18 - 20, 2018 (Friday - Sunday) - the Dayton Hamvention, the biggest Hamfest in the USA at the Greene County Fairgrounds, Xenia, Ohio. Groups of OVH members usually go; every Ham should go - at least one time, even if just for one or two days. Save the dates. Go to <http://hamvention.org>

June 3, 2018 (Sunday) - the Manassas Hamfest which is being put on for the 44th time by the OVH. The Flyer for the 2018 Manassas Hamfest is included at the end of the Newsletter. Also, more info at <http://manassashamfest.org> and at <http://w4ovh.net> (Hamfest tab). Plan to attend this OVH event!

HAM RADIO RELATED / PUBLIC SERVICE EVENTS:

March 25, 2018 (Sunday morning, early!) - Tri-It-Now event for which the OVH provides communications support. Contact Andy / KJ4MTP.

May 17, 2018 (Thursday) - Contest University program at Dayton, Ohio - a full day, intensive training sessions on many timely topics for advanced radio amateurs just before the Dayton Hamvention. Although the program overall has a contest focus, it includes a large amount of non-contest general and specific information about how to effectively improve any ham station. Highly recommended. Go to <http://contestuniversity.com> for more details about attending this.

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:

March 17 - 18, 2018. Virginia QSO Party sponsored by the Sterling Park Amateur Radio Club. This is worldwide radio event, but because it is centered about Virginia, we can all easily participate even with low power and with no competitive intent - just for a few QSOs and to have fun. The VQP sponsor made a presentation at the our meeting in February and presents the

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VQP awards each year at the Manassas Hamfest in June. Full details for this year's contest are available at http://www.qsl.net/sterling/VA_QSO_Party/2018_VQP/2018_VQP_Main.html If you are able to get on the air and make some contacts, be sure to send in you log to the sponsor and mark on your log that you are a member of the Ole Virginia Hams.

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

Also, always check the online Calendar by David / KG4GIY at <http://pwcares.org> for the latest ARES 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.

Some Possibly Interesting or Useful Information

1. Interested in Telephones and Telephone Technology? Now there is a Telephone Museum just west of Boston and well inside the Route 128 - Beltway: <http://telephone-museum.org> Visit this on your next trip to Boston.

2. Some "telephone" recollections by Bill / N4SV - which led to his interests in electronics and ham radio:

"As a personal note, I worked for "The Telephone Company" for about 30 years until the lines between telephones and data networks got so blurred that they almost became synonymous and I moved seamlessly into IT work, but still have a hand in maintaining phones. The story I am about to relate was the impetus for me getting into the Telephony business.

"When I was a kid in California we were on a party line, we knew we were on a Party Line because it wasn't uncommon to pick up the phone to make a call and someone was already talking. We became friends with most of those on our Party Line, and we would all respect each others privacy and hang up immediately. Since there was no way to know when they were finished with their call we would just have to check back from time to time to see if they were done. Anyway, that's not the story.

"Back then it was "illegal" to possess a telephone that was not provided to you by The Phone Company (just imagine that today...illegal to own a phone). Occasionally, at flea markets or swap meets someone would have a telephone for sale, and buying one of them was like some people buy drugs today; you were looking over your shoulder when you handed the guy the money. My dad had a friend who moved his business into a building where the previous tenant had left in a hurry and left behind his phones. Usually The Phone Company would know about these types of situations and send someone out to pick up their equipment, in this case they apparently did not. My dad knew I was interested in electronics so he got one of the phones and gave it to me, with the explicit understanding that I was not to try and hook it up to our phone wiring (in those days phones were hard-wired to the jacks, RJ-11s hadn't been invented yet). So naturally the first thing I did, when he was away on a trip, was hook it up to our phone wiring. I was so proud of myself, picking up the phone receiver and making a call on my bootleg phone. Then my problems began. The phone rang a few times, but it was the only one that did, our other phones did not? Because I understood nothing about electronics then I was baffled. One time I got up the courage to answer that phone when it rang, my curiosity getting the best of me. I envisioned it was The Phone Company Police calling to find out who I was so I could be arrested and thrown in The Phone Company Prison. Turns out that phone rang when one of the folks on our party line got a call (as I discovered later party line phones had different capacitors on the ringers, and a unique frequency of AC ringing voltage would be sent for each house on the party line so only their phone would ring)! Anyway I was ecstatic; I "hacked" The Phone Company and was so proud of myself...until my dad discovered what I had done and made me remove it...my rear end is still sore,

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VP's Corner

Jeff Fuller
WB6UIE

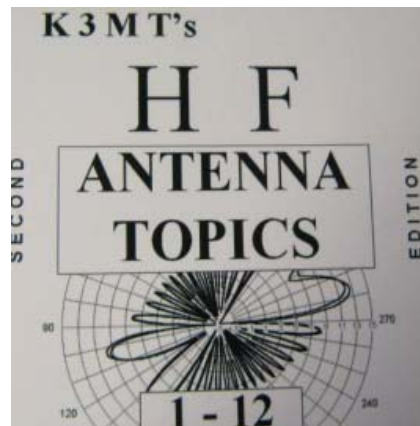
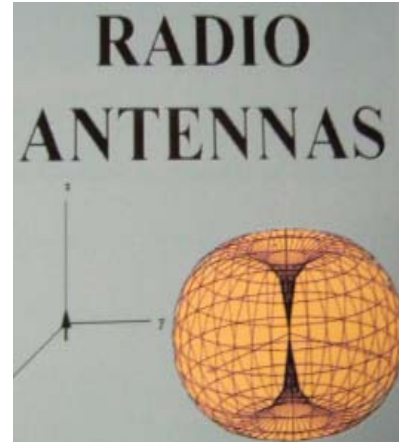
Soon spring will be here, birds will be singing, and a young ham's fancy turns to ... antennas. Yes, as part of spring cleaning, now is a good time to check your RF plumbing or maybe think about expanding your antenna farm (cover your ears Pinkie ...) A popular ham radio saying: "If your antenna stayed up last winter, it wasn't big enough. After that last storm, I've determined that mine was big enough ...

Want to brush up on your antenna theory? Learn some new concepts? Then our latest additions to the OVH lending library (right) are for you. W1CRO recently donated several several copies of each to the club. Thanks Art! I'll bring them to the meetings where they'll be available for check out.



<https://www.youtube.com/watch?v=BztTRFxsxNs&feature=youtu.be>

Did you know that amateur radio has another outdoor sport besides Field Day? Known as foxhunting, participants (right) race around a timed course using hand held direction finders to guide them toward hidden transmitters. There is a practical aspect as well. Amateur Radio DF (ARDF) finds a public service role in SAR efforts as well as locating accidentally triggered EPIRBs and repeater jammers. Want to learn more? Joins us for this month's presentation by Larry, W8ANT.



How about something a little more hands on - like adding a tiger tail to improve the performance of your rubber duck HT antenna. Here's a great You Tube video by Bill, K5AE (left).



https://commons.wikimedia.org/wiki/File:Ardf_0001.jpg

Continued from Page 6 - Some Possibly Interesting or Useful Information

“So OK, I couldn’t hook it up to the phone lines...hmm, what would happen if I hooked it to the wall outlet. Remember this was before I knew anything about electronics or electricity, it was all the same mystery to me. So I got an old table lamp and cut the AC cord off of it (you all know where this is going), and I hooked it to the wires coming from the phone and plugged it into the wall outlet...nothing happened. I lifted the receiver... nothing happened. I went to dial a number (remember this is a rotary dial phone)...and SOMETHING happened...more smoke, sparks and if I hadn’t yanked out the cord from the wall, there would have been fire.

“After my dad replaced the fuse I blew, what remained of the phone went into the trash (in a brown bag so no one would know what it was)...my rear end is still sore. Anyway, both experiences with that phone made me want to understand how phones really worked and 15 or so years later I was working for The Phone Company.

“I don’t work for The Phone Company anymore but I still work on phones, doing a daily stint as part of my IT work administering, installing and maintaining VoIP phones. Oh and yes, when I discovered that this VoIP technology was being ported to Ham Radio use, the excitement I had as a kid with that first bootleg phone was re-kindled once again. Guess I was born a Geek and will probably go out that way...and what a way to go.” .

3. Some similar “telephone” recollections by Paul / W4ZB:

“When I was a young kid in Woodbury, New Jersey (near Philadelphia), we had a non-dial telephone in our home - when you just picked up the handset (no need to turn any crank), a live operator came on after a few moments and ask: “Number please?” - You provided the name or the number and the operator completed the connection and then got off the line. During one stage as young kids, my brother and I would pick up the telephone to just hear “Number Please!” and then hang up without saying anything. Of course the operator knew the number of the telephone that was doing that - and eventually she called and reached our mother - who warned us sternly not to do that again. We didn’t.

“My father’s mother lived in a very small village (Good Spring) in Pennsylvania where the entire village had just one or may be two party lines. Of course, everyone knew everyone and everyone else’s business too; my grandmother and her sister ran the village post office, saw all of the incoming and outgoing mail which had to be left off or picked up at the “post office” where they also operated a small general store for essentials out of a single room in their house. The telephone had a hand crank on it and you had to crank to get the live operator to come on once you picked up the handset; the live operator would then place the call. If the line was already in use by someone else, you had to wait. The telephones there were still party line into the 1980’s.

“In the early 1970’s I was in a office in DC, and a very senior guy (G. Kibby Munson) in the next office to mine was then in his late-80s but still very, very sharp and detail oriented, with excellent recollection of everything from the mid-1930s back to his childhood in Rochester, New York. If started, he could and would talk at length and in detail about the 1890s, pre-WWI, WWI and the 1920s as though those times had just happened. Once he related that as a child, his family had had two separate telephones in their Rochester home even though, way back then, only a very few people had even one telephone. He had a good answer for why: there were two telephone companies in Rochester in the 1890s but they were in competition and refused to interconnect lines or to switch calls between systems. His father was a practicing Medical Doctor who might need to be reached at time - so they needed to have to a separate telephone from each telephone company so callers on either system could reach his father directly.

“As a teenager in southwestern Connecticut, we had a rotary dial, single line telephone in our house. There was direct dialing everywhere, except overseas. My father often made overseas calls, but to do so, it was necessary to call the overseas operator first who would set up a call and then call back once overseas cable lines were available. This was long before satellite and fiber optic cables connections. Direct dialing overseas is almost universal now, but when I got my first office telephone lines in DC in the early 1980’s, we needed had to get a different exchange for our fax because the 202-467 exchange did not support direct overseas dialing. For the past 10 years, however, those voice and fax numbers have been operating on VOIP - still another technology - and they are now answered at offices in my home in Catharpin - but could also be answered anywhere else in the world with a good Internet connection simply by moving the VOIP modems there. Communications technologies are constantly changing and improving.”

WINTERFEST!™

~The National Capital Area Ham Radio Radio Fair ~

- Ham Radio, Electronics, and Computer Parts, Pieces, and Paraphernalia
- Licensing Exams -- get licensed or upgrade today
- Large Indoor Exhibit Area
- QSL checking for WAS, DXCC, VUCC
- 150 Paved tailgate spaces
- Improved and expanded loading dock
- FREE On-site parking
- Bring a Friend

FEATURING

~ Indoor Exhibit Area ~

Opens at 8:00 AM

~ License Exams ~

11:00 AM - 1:30 PM

Walk-ins encouraged!

~ QSL Checking ~

8:00 AM - Noon

~ Tailgating ~

Tailgate area opens at 6:00 AM

Sunday, March 18, 2018

Northern Virginia Community College

Annandale Campus

Richard J. Ernst Cultural Center

8333 Little River Turnpike

Annandale, VA



Admission: \$10.00 per person

Tailgate spaces: \$20 for one space (includes one admission) +\$10/each additional space

Talk-in 146.91 Courtesy of Fairfax ARES and the NVFMA

More Information at

<http://www.viennawireless.net/wp/events/winterfest>

**Vienna Wireless Society
PO Box 418
Vienna, VA 22183**

**Table Sales -- Doug, AK4AO
tablesales2018@viennawireless.net
(703) 698-6158**

NORTHERN VIRGINIA'S LARGEST

Manassas Hamfest



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 3, 2018

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 Repeater on 146.97-

INDOOR EXHIBITOR SPACE

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

GENERAL ADMISSION

\$10* per person at gate
(Age 18 and younger: no charge)
(*See web sites for prepayment discounts before 5/15/2018)
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 5/15/2018)
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 Forum and Awards
- Check our web pages (below) for the most up-to-date information

ACTIVITIES

- Flea Market & Vendors - all day
- VEC License Exams: 8:00 AM - 11:00 AM (\$15.00 Fee per Examinee at the VE Exams)
- 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
- "Maker" group technology demonstration
- More Forums to be announced, check web sites

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

Dealer Info from Sandy / KM4JUS: vendors@manassashamfest.org

General Info from Don / WA2SWX: chairman@manassashamfest.org

VE Testing / Exam Information: vetesting@manassashamfest.org