

OLE VIRGINIA TIMES

Renew your OVH
membership now!

March 2019

Next Meeting: Tuesday, March 19, 2019

PRESIDENT'S LETTER:

Well I don't know about you, but the upcoming Virginia QSO Party this weekend has got me scrambling to get my antenna on my car so I can try transmitting from various locations around Virginia. I have a "Little Tarheel" antenna that was working great on my last car. I have been exploring various methods of mounting it and have determined that mounting it to a piece of 3/4 inch rigid conduit bent to come up the side of my car, welded to a hitch that slides into the receiver on the car is my best bet. I only hope that I can get it accomplished before the weekend. My worst-case scenario is that I transmit from home.

I forgot it was this weekend but I heard Theresa / KG4TVM and Gil / KM4OZH talking about it after the Hamfest planning meeting on Tuesday evening and that reminded me I need to get the antenna on the car. Gil is planning to do some extended mobile operating in many counties and cities around the state during the contest this year, and he wants as many of us as possible to be around to work him on VHF when he returns to the area on Sunday afternoon! Everyone who participates: remember to mark OVH as your club on your log submitted for the Virginia QSO Party event. More details in the Reminders of Events / Dates later in this Newsletter.

Have you checked out the latest digital mode that has come out? I am talking about JS8CALL. It looks like it will be a great way to communicate. It is an improved version of FT8 where you are able to carry on a conversation keyboard to keyboard. It seems to me this could be useful in emergency situations where you need to send more information than signal reports and locations. Well if you haven't heard or read about it come to the March OVH club meeting where John / KG4NXT will give a presentation about JS8CALL. I downloaded the prerelease version to try it out. The version 1.0 should be released soon. I got my ICOM 7100 setup but I haven't made any contacts or received any JS8 signals yet. I haven't had much time to play with it so I am looking



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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:	John Heartney	KG4NXT	257-3566
Treasurer:	Don Meyerhoff	WA2SWX	597-3211

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 2019 - Chairman

Don	WA2SWX	597-3211
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FIELD DAY 2019

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
Don	WA2SWX	597-3211

GENERATORS

Steve	N4OGR	361-0008
Al	KB4BHB	368-4794

HISTORIAN

Theresa	KG4TVM	257-3566
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WEB COMMITTEE — W4OVH.NET

Kevin	KX4KU	540-439-3289
Andy	KJ4MTP	786-4651
John	KG4NXT	257-3566

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
-----	-------	----------

MEMBERSHIP CHAIRMAN

Luther	WA3FMO	361-4885
--------	--------	----------

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

Wayne	N7QLK	571-237-0520
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W4PVA — TRUSTEE

Arthur	W1CRO	791-4330
--------	-------	----------

SCHOLARSHIP

Sandy Knight	KM4JUS	901-4664
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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 © 2019 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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forward to the presentation to see what I am doing wrong.

Also, make sure to read the latest VP's Corner on the web site and later in this Newsletter. Jeff / WB6UIE offers an interesting short history of digital modes.

The first Mini-Try event of this year is coming up on March 24th and the OVH will again be providing communications support for the event. These are great for those new to the hobby, along with a refresher for those that have been in the hobby for a long time, but just haven't done any community support events for a while. Plus, it is a lot of fun and they really appreciate our being there. Andy / KJ4MTP is again organizing the OVH's support for this event and will sending out a sign-up notice on the reflector. All you need to participate is an HT and if you don't have one of those, one can be provided for you to use.

Another events occurring this month is the Vienna Wireless's Winterfest (hamfest) on Sunday morning, March 24th at the NOVA Campus in Annandale. More details in the Reminders of Events / Dates later in this Newsletter.

There has been some discussion on the reflector and a renewal of interest in learning CW (Morse Code), and about various ways to learn CW. I looked into one called CW OPS which is run by CW operators. They have three training sessions that are two months long a years and I missed one already. The next one starts in April however I will be out of town a lot in April so that won't work for me either. I guess I will wait till the September one starts. I think I do better in a classroom situation (they video conference via Skype) then learning on my own in this situation so I look forward to the class and appreciate others sharing their training experiences.

At the risk of sounding a bit like a broken record, I want to remind everyone again - who has not already done so - to please send in your OVH renewal membership dues. These dues are very modest and will show your continuing support for the local club. This can be done online at W4OVH.NET, using the form later in this Newsletter or at the next regular OVH meeting.

Finally, I look forward to seeing all of you at the upcoming regular meeting on Tuesday evening, March 19th at 7:30 pm at the Buckhall Fire Station, Manassas.

73 BYRON AK4XR

Sunshine Corner:

Very happy birthday wishes in March for Fred / N3KVV, Scott / KM4FTD, Gary / K4MRL and Jeff / N1SN

Congratulations and best wishes to Steve / N4OGR and Jan / KE4TMW as he continues to recover from his new heart transplant operation. Please keep them both in your thoughts and prayers as Steve continues to recover.

Fred / N3KVV is going to PT rehab several times a week and very slowly regaining his strength after his multiple injuries in his early December motor vehicle collision. He's still not sure he will be able to make the Manassas Hamfest this year; if he can't, it will be one of his very few misses of the Manassas Hamfest during the past 40 years.

Condolences to the families of Dave / W4HRR and Jimmy / WA2QEJ. Both gentlemen passed away at the beginning of February.

The Virginia QSO Party takes place on Saturday, March 16th, and on **Continued on page 4**

Sunday, March 17th. This is always a fun event for OVH members and very easy to participate in - even if you are just a casual participant. Please remember to turn in your log for this event and list the OVH as your club. Hope to hear you on the air! More details about the event and how to participate in the Reminders of Events / Dates later in this Newsletter.

The Vienna Hamfest will be the last weekend in March this year; hope to see many OVH members there. The OVH will have a club table set up so please stop by and say Hello! More details about the event in the Reminders of Events / Dates later in this Newsletter.

Hamfest planning meetings are now well under way. Contact Don / WA2SWX and let him know how you will be able to help the club. Do not forget the Manassas Hamfest this year will have a new day and location – Saturday, June 15th, at the Manassas Park Community Center. Check out the W4OVH.NET web site for the latest updates.

The OVH CW Net is every Wednesday evening at 7:00 pm on 3550 KHz; the OVH club breakfast is now being held monthly on the Saturday morning before the OVH's monthly meeting at Yorkshire Restaurant at 8:00 am. Two new great events!

Please send me your news so it can be reported. Everyone, if you haven't done so already, please renew your OVH membership for 2019! You can either use the mail in form at the end of this Newsletter or do it online at w4ovh.net. The club needs your continued support and collection of the modest annual dues shows your support!

Please try to check in to the Thursday night VHF/UHF FM net at 8:00 pm. You will hear updates and information on everything going on! How to do that is on the OVH web site at <http://w4ovh.net> and you can now also check in either by radio or via Internet connection.

73 Theresa KG4TVM and **HAPPY ST. PATRICK'S DAY**

Minutes of the Ole Virginia Hams Amateur Radio Club Meeting held on Tuesday, February 19, 2019:

OVH President Bryon / AK4XR called the meeting to order at 7:30 pm on February 19, 2019 in the main conference room at the Buckhall Volunteer Fire Department Station.

After the Pledge of Allegiance, all present stated their names and callsigns. There were 25 OVH members present.

Jeff / WB6UIE and John / KG4NXT gave a short presentation of the upcoming Virginia QSL Party which will take place on March 16th and 17th. There will be numerous category awards during the OVH Hamfest in June. John will send on the OVH closed email reflector a notice about posting the presentation on the OVH web site, W4OVH.NET.

January Meeting Minutes: Sandy / KM4JUS made a motion to accept the January meeting minutes, with no changes. Bob / K4HJF seconded and minutes were approved.

Treasurer's Report was given by Don / WA2SWX. John / KG4NXT made a motion to accept the Treasurer's Report. Al / KB4BHB seconded and report was approved. Details will be posted for members on the web site.

Membership report was presented by Luther / WA3FMO; Rob / W4FSK was voted in as a new member.

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Sunshine report given by Theresa / KG4TVM. A card was passed around for Steve / N4OGR who at last had a heart transplant in Philadelphia in January. Happy February Birthdays. George / K4GVT and Butch / W4HJL are doing better. Art / W1CRO was in the ER last Wednesday, but doing better.

ARES Report was given by Greg / KM4CCG. There will be a training meeting on March 16th & a Marathon at Quantico on March 23rd.

Repeaters Ken / KE2N – Antenna switching test is doing well. Waiting for a new antenna to arrive.

Training Report by Mark / WA4KFZ – A ‘Now What’ session is planned for March.

2019 Hamfest update was given by Don / WA2SUX. Flyers were distributed at the Richmond FrostFest in early February. Some ticket sales have started (Vendors & General public). The club will provide Food Services and will need help. Phil may do the cooking. Volunteers will also be needed at entry points (indoors & outdoors). Sandwich Boards signage would also be appreciated. There will not be a Youth Lounge this year.

Field Day update was given by Byron / AK4XR. Scheduled for June 23-24 at the Nokesville Park. The team is looking for a couple of Windows 10 laptops, that have 2 processors & 2 gigs of RAM.

WebPage committee wants to incorporate the IT working Group with the Reflector. A motion was made by Jeff / WB6UIE and seconded by George / K4GVT.

Scholarship update was given by Sandy / KM4JUS. The value will be for 1 scholarship for \$1000. She will prepare the updates to the web site & application. She will sending letters to the schools.

There will be a STEM program at NOVA in Manassas on April 27th. John / KG4NXT made a motion, seconded by Al / KB4BHB for the club to reimburse Wayne / N7QLK the \$100 fee. Motion approved.

Jeff / WB6UIE indicated that Slopers in Manassas can provide the OVH polo shirts. There is a \$12 fee to get Name on shirt.

John / KG4NXT read a motion to amend Article II, Section 3 of the OVH Constitution (addition is in bold type) – ‘A person desiring to join this Club must submit in writing to the Secretary a request to join the Club, agreeing to the rules and regulations which are at the time, or shall subsequently be placed, in effect. This request shall be acted upon at the next regular meeting following its introduction to the Club. A person who has their request for membership denied by a vote at a regular club meeting shall be ineligible to submit a new request for membership for a period of 36 months after the date of the vote denying membership.’

There was a short but roaming discussion with questions raised about the club’s procedures for admission of new members; it was recommended that such matters be referred to the Membership Committee for more discussions in the March meeting.

The annual elections were held for the new club officers for 2019, through February 2020:

- President – Byron AK4XR (24)
- Vice President – Jeff WB6UIE (24)
- Treasurer – Don WA2SWX (24)
- Secretary – John KG4NXT (14)

Other votes for Secretary: Sandy / KM4JUS (1), Rosalie / WIFE (1), George / K4GVT (1), Dick / KM4UXE (3).

Ray / KM4EKR asked about club involvement with the PWC School STEM program. Would the club be interested in a presentation by the youth at a future OVH meeting? Maybe have the youth have a

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table at the upcoming Hamfest. He will follow up with his PoC and have more information next month.

Meeting was adjourned at 8:35pm.

Reminders about some upcoming events / calendar dates:

HAMFESTS:

Sunday, March 24, 2019 - Winterfest - put on by Vienna Wireless Society at Northern Virginia Community College in Annandale, Virginia. See flyer later in this newsletter.

Saturday, June 15, 2019 - Manassas Hamfest - for the 45th time - new day of the week and nearby new location this year - see flyer later in this newsletter for more details.

HAM RADIO RELATED:

March 16, 2019 at 8:00 am, Saturday at the Yorkshire Restaurant, 7537 Centreville Road, Manassas - breakfast for OVH members. This will be the third of a new type social "event" for OVH members; it is intended to provide a face to face venue at which members will be able to converse informally and get to know each other better. There is enough interest and this will held as a regular event on the Saturday morning each month just before the OVH's next regular meeting.

Wednesday evenings at 19:00 on 3550 KHz - OVH Slow Speed CW net. First session was held on January 9th and several sessions since, A few unexpected problems were encountered, but the current plan is to continue to hold this every Wednesday at 13 WPM or slower. Check the W4OVH email reflector and web site for updates.

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 locations for the meetings which have been changing recently.

HAM RADIO OPERATING / CONTEST EVENTS:

March 16 & 17 - Saturday / Sunday - Virginia QSO Party Contest. Details at the web site: https://www.qsl.net/sterling/VA_QSO_Party/2019_VQP/2019_VQP_Main.html
This is a very popular event for OVH members and hams in Virginia. A speaker from the sponsoring radio club will be at the upcoming OVH meeting.

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 at <http://www.hornucopia.com/contestcal> by WA7BNM. 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

Sunday, March 24th - beginning early morning - OVH communications support for the MiniTri event at the George Mason Univ. Campus, Manassas. Contact Andy / KJ4MTP and see info on W4OVH.NET about how to participate.

Check the online Calendar by David / KG4GIY at <http://pwcares.org> for the latest PWC 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.

VP's Corner

Jeff Fuller
WB6UIE

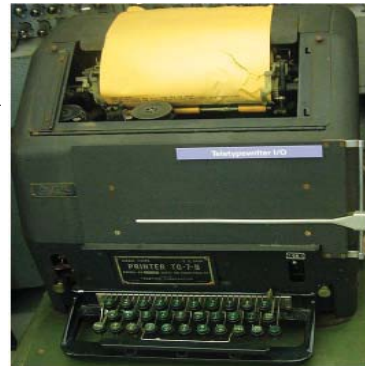
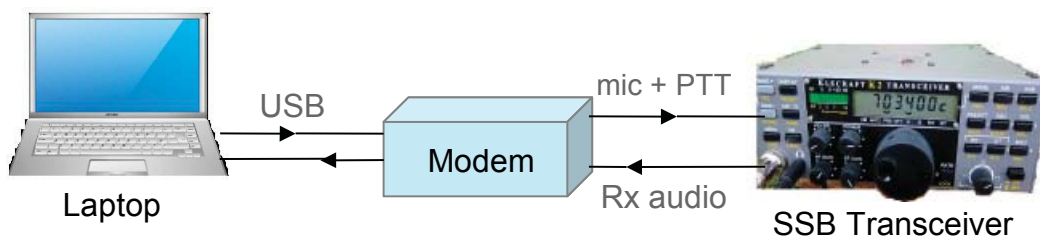
This has been quite a mind expanding week as I listened to John describe his favorite new digital mode, JS8. It runs on a laptop computer and manages to copy at subterranean signal to noise ratios. Wow, how does that work? And how did we get here?

The journey leading to seemingly magical modes like JS8 began shortly after World War I as growing demands for commercial and government communications rapidly exceeded the capacity of manual telegraph circuits. A small group of clever inventors proposed a solution known as a "printing telegraph" or teleprinter. Its electromechanical keyboard and printer combination used a 5 bit Baudot code to represent 64 possible alphanumeric characters.

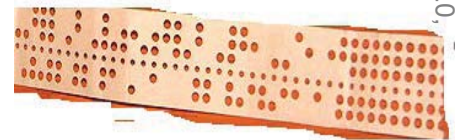
Their invention was a resounding success and their company, the Teletype Corporation, went on to become a major supplier of telecommunications equipment during the 20th century. Both landline and radio teletype (RTTY) circuits commonly ran at speeds of 60 and later 100 wpm.

Surplus Teletype equipment became available to the amateur radio community in quantity shortly after WWII. Most ham activity used 60 wpm FSK on the HF bands. I can remember a friend and I spending an all nighter to get an old Model 15 working during my high school days. Our demod was a 6AL5 discriminator (yes, those were vacuum tubes). We were ecstatic when we finally got Reuters news coming out of the printer.

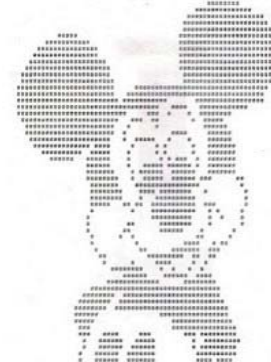
Time marches on. The invention of the PC hastened the demise of the Teletype Corporation, which went out of business in 1990. It also spawned some fascinating new sound card modes (below). Join us for a presentation on one of the newest, JS8, by John KG4NXT at our March meeting. Hope to see you there.



Military version of the Model 15



No computer memory in those days. Messages were stored for transmission on 5 level punched paper tapes.



Clever operators sometimes exchanged teletype art during the midwatch.

By Raj & Neha - Flickr: teletype, CC BY-SA 2.0.
<https://commons.wikimedia.org/w/index.php?curid=19282385>

THE NEW 2 METER REPEATER ANTENNA AT THE OVH's MT. PONE SITE

The OVH repeater committee decided to replace the 2 meter repeater antenna at the top of the water tank at the Mt. Pone site at the end of February to fix the noise problems that have been observed when a lot of precipitation was occurring. Ken / KE2N had run a test with a separate



transmit antenna and the results appeared to validate the notion that the antenna itself was the source of the problem.

When the new antenna arrived, it was decided to do an immediate installation because of the good weather that day, but with a NWS storm warning for the next following day. With only a few hours, Ken was able to muster a 4 man team of club members: Byron / AK4XR, Gil / KM4OZH, John / KG4NXT, and Ken / KE2N. The team arrived at Mt. Pone and installed the antenna without any remarkable or unexpected problems. Byron, who learned safe tower climbing practices in Iraq, climbed the tower (see the pictures) and installed the antenna with the rest of the team providing support.



After the new installation, Ken disassembled and inspected the old antenna; he reported "The old

antenna has a screw-together field joint between the upper and lower sections with a connector inside it. The center pin of the connector appeared blackened and burned. Both upper and lower fiberglass sections each have a small vertical crack just above the base of each section. More post-mortem later."

All who checked in the Thursday night net right after the new antenna was installed had good things to say about it: better signal strengths and very little noise compared to previously.





OVH's NEW REPEATER TRUSTEE

Wayne Phillips / N7QLK, in the picture to the left, is our new W4OVH repeater trustee.

As the new repeater trustee, Wayne is now the 'chief control operator' who can appoint and fire other control operators for the OVH's repeaters.

In addition, if you want to use the club callsign, W4OVH, at a special event or otherwise, you need to request and receive Wayne's advance approval.

Thanks to Wayne for undertaking this new job and for his many years of service to the OVH in many capacities. We also thank Stu / W4PR, for his many years of able service as the OVH's previous repeater trustee.

Some Possibly Interesting or Useful Information

1. Learning CW (Morse code). Quite a few newer OVH members have recently expressed interest in finding out how best to go about learning Morse code and gaining proficiency in its use. Of course, knowledge of and proficiency in the use of Morse code has not been required for any ham radio license for quite a few years now - although it used to be required for all licenses with HF band privileges and for many VHF/UHF licenses as well. It does not take very long before a relatively new, active licensee begins to notice that there is truly a lot of CW activity on the HF bands; he or she then begins to wonder - how hard is it really to learn CW? Although there is no obvious way to learn CW, an initial thought often is: it can't be too hard to learn because hundreds of thousands of ham operators have already learned Morse code and can use it with reasonable proficiency. Indeed, it is not difficult to learn - but because it is not an essential skill, it will take some dedication and application to learn. But it is really no more difficult to learn than learning how to touch type on a keyboard proficiently - which hundreds of millions have learned to do. Actually, quite a bit has been written in this Newsletter over the past 15 years about how to learn the Morse code. To find the articles, put `site:w4ovh.net` in your web browser search window along with additional phrases such as "CW Ops" or "Learn CW" or Learn Morse Code The initial `site:w4ovh.net` term confines the Google search to items and files on the W4OVH.NET web site only. The additional search phrases define what you actually want to search for there. Note: this is a powerful, general search technique which can be used to confine a search for specific search terms to any specific web site. Use this to find past materials in the OVH Newsletter about how to learn CW!

2. Circuit Simulation Software allows one to optimize circuit designs before engaging in actual hardware circuit construction and testing; when properly used, such software minimizes the time required to come up with a design which performs desired functions and eliminate the many trial and error steps previously required. We have written about such software here before. The really good professional stuff is expensive but there are lesser capable trial versions; in the modern open software era, freeware is also available. The QucSuite Circuit Simulator was recently written up in CQ-DL with a good reviews. The English language site for it is at <http://dd6um.darc.de/QucsStudio/qucsstudio.html> Enjoy!

RE M I N D E R



Yes, it is that time of year again!!!! Below is the 2019 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

MEMBERSHIP RENEWAL APPLICATION "OLE VIRGINIA HAMS AMATEUR RADIO CLUB" for 2019

NAME: _____
ADDRESS: _____

CALL SIGN: _____
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, 2019. 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: _____
Name: _____

Call: _____
Call: _____

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

NORTHERN VIRGINIA'S LARGEST

Manassas Hamfest



AMATEUR RADIO, TECHNOLOGY & MAKER SHOW

An ARRL-Approved HAMFEST Presented By:

The OLE VIRGINIA HAMS Amateur Radio Club, Inc.



Note the new location - close to the former one - and the new day - Saturday - this year!

Saturday, June 15, 2019

New location at the Manassas Park Community Center with outdoor and indoor flea market areas, indoor air-conditioned commercial areas and ample parking

Street address: 99 Adams Street - Manassas Park, Virginia -- Talk-In Repeater on 146.97-

INDOOR EXHIBITOR SPACE

6-foot tables: \$30* each
with chairs & electricity
(\$25 if reserved by May 31th)
Setup 5:30 PM - 8:30 PM Friday
and 5:00 AM - 6:30 AM Saturday

GENERAL ADMISSION

\$10* per person at gate
(Age 18 and younger: no charge)
(*See web sites for prepayment discounts before 5/31/2019)
Gates open at 6:30 AM

TAILGATING (admission is extra)

Outdoor Spaces: \$10* per space
(*See web sites for details about online prepayment discounts before 5/31/2019)
Gates open at 6:30 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 1 PM

INFORMATION

- ARRL Roanoke Division Officers attending
- Virginia QSO Party Forum and Awards
- New location this year: no pets or firearms are allowed
- Also, overnight camping: not allowed at the new location
- Check our web pages (below) for the most up-to-date information

ACTIVITIES

- Flea Market & Vendors - all day
- VEC License Exams: 8:00 AM - 12:30 PM (\$15.00 Fee per Examinee at the VE Exams)
- 4th Call Area QSL Bureau Representatives & DXCC QSL Card Checking will be available
- Amateur maker project demos
- Amateur Radio Satellite Forum
- Various technology and radio demos
- More Forums to be announced, check web sites

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

Dealer Info from Don / WA2SWX: vendors@manassashamfest.org
 General Info from Don / WA2SWX: chairman@manassashamfest.org
 VE Testing / Exam Information: vetesting@manassashamfest.org

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 24, 2019

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
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