

OLE VIRGINIA TIMES

Renew your OVH
membership now!

January 2023

Next Monthly Meeting: Tuesday, January 17, 2023

PRESIDENT'S LETTER:

Happy New Year to All,

I heard what I thought was a great story this week. It is the kind of story that you hope is true.

It seems that back in the late 1800s or early 1900s there was a telegrapher's job opening, and a man went down to the office to apply. When the man got there however, there were about seven applicants ahead of him. Unconcerned, he took his seat to wait his turn. It was a busy office with a lot of office noise, and this being the past, lots of heavy clicking and clacking from the telegraph equipment.

After a few moments, this man got up from his seat, and strode purposefully into the back office whereupon the door closed. This, of course, upset the seven applicants that were ahead of him. "How dare he?" they all seethed. "We were all here ahead of him, who does he think he is, cutting ahead of the line like that?"

A few moments later the door opened and the office manager came out of the back room with the applicant. "You can all go home now. The position was just filled by this gentleman here."

"Why is that?" they all demanded. "How come we don't get a chance to apply?"

"Because" the office manager said "the waiting room was part of our test. We were using telegraphy to send a message in code that said 'if you understand this message being sent, please come directly into the interview room.' This candidate was the only man to do so."

As part of my New Year's Resolutions, I have set a goal for myself to learn CW this



Cont'd on Page 3

Ole Virginia Hams Amateur Radio Club, Inc.

Post Office Box 1255
Manassas, Virginia 20108

OFFICERS

President:	Ken Brant	KN4DD	622-2638
Vice Pres:	Tony Ohe	KM4KLB	596-2508
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

JOHN	KG4NXT	257-3566
Thurs - 8:00 PM Local Time		

HAMFEST 2023 - CHAIRMAN

Don	WA2SWX	597-3211
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FIELD DAY 2023 - CHAIRPERSON

Cat otohime.1978@gmail.com	KM4PBD	571-213-2179
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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 - volunteer needed!

ARES - EMERGENCY COORDINATOR

David Lane	KG4GIY	628-3868
See http://pwcares.org	email: kg4giy@arrl.net	

FINANCE

Arthur	W1CRO	791-4330
Mark	WA4KFZ	818-8033
Don	WA2SWX	597-3211

GENERATORS

Byron	AK4XR	222-2095
Al	KB4BHB	368-4794

TRI-IT-NOW & WARRIOR BIKE RIDE - CHAIRMAN x2

Andy andy@gamponia.com	KJ4MTP	785-4651
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WEB COMMITTEE — W4OVH.NET + Twitter & Facebook

Kevin krutzy62@gmail.com	W4RKU	540-445-5183
John kg4nxt@arrl.net	KG4NXT	257-3566
Ken kn4dd@arrl.net	KN4DD	622-2638

Web Committee "help request" email: webmaster@w4ovh.net

EMAIL REFLECTOR — w4ovh@googlegroups.com

John	KG4NXT	257-3566
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MANASSAS CHRISTMAS PARADE - OVH COORDINATOR

George	K4GVT	791-5956
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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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CHRISTMAS / YEAR END PARTY - CHAIRPERSON

Theresa.	KG4TVM	257-3566
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PROGRAMS

Tony	KM4KLB	331-3705
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QUARTERMASTER

Open - volunteer needed!

REPEATER CONTROLLERS

John	KG4NXT	257-3566
Ken	KE2N	753-8587
George	K4GVT	791-5956
Arthur	W1CRO	791-4330
Butch	W4HJL	369-2877
David	KG4GIY	361-3042
Cat	KM4PBD	571-213-2179

W4OVH — TRUSTEE

Wayne	N7QLK	571-237-0520
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W4PVA — TRUSTEE

Arthur	W1CRO	791-4330
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SCHOLARSHIP 2022

Ken	KN4DD	622-2638
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SUNSHINE

Andrea	KI4SXM	868-5363
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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
Gil	KM4OZH	369-0431

HISTORIAN

Theresa	KG4TVM	257-3566
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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 © 2023 by the Ole Virginia Hams which holds its regular monthly meetings at 7:30 p.m. every third Tuesday at the Buckhall Volunteer Fire Department Station, 7190 Yates Ford Road, Manassas, Virginia except during the COVID pandemic (in 2020-2021) during which the monthly meetings were held online. The Newsletter will have login details for monthly online meetings if applicable. 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. 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 through the OVH's web site at <http://w4ovh.net>. Articles in this newsletter may be reprinted if credit is given to the OVH ARC and other source(s) noted. Proposed materials for publication, classified ads, notes about specific errors, complaints or the like are solicited. Forward such items to the Newsletter Editor: paul@w4zb.com. Approx. Circ.: 170. Last Rev: 20230101

Cont'd from page 1

year. If you don't yet know CW, I hope you will consider learning it, also.

And if you took part in the annual ARRL Straight Key Night (SKN) on New Year's Eve and New Year's Day, congratulations.

I think we had a pretty good year in 2022 as we continue to recover post COVID.

In 2022, the OVH supported:

- 7 Tri-It-Now mini triathlons;
- 2 young STEM students received the Steve Frick Scholarship awards. And for the first time, both recipients were female;
- A return to Hamfest that left us in the black;
- A successful Field Day - a fitting capstone for Byron, AK4XR as he retired from the Chairman's position after many years;
- The OVH fielded 26 spotters for the 2022 Warrior Bike Ride which raised a total of more than \$90,000;
- A VE session in the Centreville library, where every applicant passed the exam;
- A Turkey Trot 5 Km;
- The annual Manassas Christmas Parade; and
- Our World Famous OVH Christmas / Year End Party.

Thank you again to everyone to donated gifts to Toys 4 Tots during this difficult year, and thanks to everyone who came out to the party. Thanks too, to the Yorkshire Restaurant for again hosting us and providing us with the turkey and ham.

A good year, indeed.

As I mentioned earlier, dues are, um,due. The new amount is \$25.00 and you will need to be paid in order to vote in elections next month. You can bring your payment to a meeting, mail it in, or pay online. Renewal form and instructions are attached to this Newsletter and the PayPal link can be found in the members section on the OVH web site at W4OVH.net

OVH officer nominations are now being received; there will a vote for a new slate of officers for 2023 at the February, 2023 OVH meeting. So please be thinking of the best candidates for our club; if you are personally interested, please volunteer. I myself will be running for a second term as OVH President, and am asking for your support.

The first Tailgate planning meeting was held on January 10th, 2023. The OVH will be doing another OVH Manassas Tailgate Party on June 3, 2023 in lieu of the Hamfest.

Another reminder - There will be no Frostfest in Richmond in 2023. They are hopeful, however, that there will be another Frostfest in Richmond in 2024,

Our monthly breakfast returns this Saturday, January 14th at 8:00 AM. Pioneered by Byron, AK4XR, we get together every Saturday before our meetings at a table or two in

Continued on page 4

Cont'd from page 3

the back of Yorkshire Restaurant for some good food and good conversation.

Place: Yorkshire Restaurant, 7537 Centreville Rd., Manassas Tel: (703) 368-4905; Yorkshire's menu is online at: <https://www.yorkshirerestaurantmanassas.com/menu/>

Our next regular OVH monthly meeting will be on Tuesday, January 17th beginning at 7:30 PM at the Buckhall VFD Hall, 7190 Yates Ford Road, Manassas, VA 20111

Bruce / KN4GDX will give a presentation on VarAC which is a conversational text digital mode for the January presentation.

Also, a reminder to check in to the OVH's Thursday night VHF/UHF repeater net at 8:00 PM. The details for that are on the OVH's web site: <https://w4ovh.net>

Questions, comments or war stories can be directed to my e-mail: KN4DD@ar1.net

73 Ken KN4DD

Sunshine Corner

Happy New Year to all OVH members!



Happy birthday wishes to our club members celebrating this January, 2023 – John /KI4OWH, Justin / KI4LAS, Elizabeth / KG4NXV, Erik /K4SOK, Joseph / KM4UYA, John / WA1STU, Ken / KE2N, Ken / KN4DD, Woody / N4MQ, Cat / KM4PBD, and Fred / WD4ASP. Hope you all have wonderful birthdays with lots of candles!



On January 11th, 2023, a Tailgate planning meeting was held at Sam and Joe's restaurant for the upcoming June 3, 2023 OVH Manassas Tailgate event which will replace the full Hamfest event this year. More meetings and info to come.

Cat / KM4PBD will be soon be setting and announcing a Field Day Planning meeting for the Field Day event to be held during the last full weekend June, 2023.

Keep an eye on the OVH closed email reflector for announcement of these future meeting. All OVH members are potential volunteers and are invited to attend them to learn more about the “behind the scenes” work for these events .

Several of our club members have been participating recently in Parks on the Air (POTA) activations. Kevin / W4RKU welcomed Don / WA2SWX to Fauquier County and thanked him for his POTA Activation of Thompson Wildlife Management Area over the January 7 weekend, Ham on! For POTA info, check out Parks on the Air at <https://parksontheair.com> You also can request more information about POTA at an OVH meeting or on the OVH email reflector.

Real fun(??) was an email sent out on the OVH email reflector by Ken / KE2N soliciting “What’s Wrong with the Picture?” with an accompanying image of an

Cont'd on page 5

integrated circuit on a small circuit board! See, the image to the right. Members gave varying speculations, answers and suggestions about what was wrong with this circuit board. Some answers related to the ratty looking solder jobs on various connectors, translations of the Chinese Hanzi characters in the image to English, and comments about precision voltage reference device differences. Quite a few members offered answers and speculations. All and all it was fun to guess, and Ken KE2N, decided to award Paul / W4ZB as having the best answer (with honorable mentions to some others).



A friendly reminder about the upcoming ARES meeting: the first regular training meeting for PWCARES will take place on Saturday, January 21, 2023 at 0900 at the EOC (Owens Building), 3 County Complex, Prince William Virginia -

Every Thursday at 8:00 pm, the OVH holds the club's weekly net on the OVH's VHF/UHF FM voice repeaters. See the W4OVH.NET web site for details, including how to join via an Internet connection. Please join us, say hello and hear up-to-date information on club news. Having issues with your radio equipment or need help with anything ham radio? This is a great forum to ask questions and hear the latest news on current club events.

Andrea / KI4SXM has now taken over from Theresa / KG4TVM and is providing the input for the Sunshine Corner. Please send your information or anything you would like included to Andrea at sunnybeach4us@gmail.com.

73 Andrea / KI4SXM sunnybeach4us@gmail.com

Minutes of the Ole Virginia Hams Amateur Radio Club Informal Meeting held on Sunday, December 11 2022:

This informal meeting took place at the annual OVH Christmas / Year End Party. No formal minutes were taken because the meeting was informal. Everyone present was busy enjoying the OVH's Year End / Christmas party.

Reminders about some upcoming events / calendar dates:

HAMFEST AND VE SESSION TYPE EVENTS:

No Frostfest event will be held in Richmond this year (2023), but the sponsors report that they are hopeful there will be another Frostfest early next year, in 2024, to be announced.

Friday - Sunday, February 10 - 12, 2023 - Hamcation Hamfest in Orlando, Florida - one of the biggest winter time Hamfests anywhere. More info at <http://hamcation.com>

Sunday, March 19, 2023 - Winterfest 2023 in Annadale, Va. sponsored by Vienna Wireless More info at <https://viennawireless.net/wp/events/winterfest>

Saturday, June 3, 2023 (rain date: June 10), 8:00 am to 2:00 pm, OVH Manassas Tailgate Party (replacing the Manassas Hamfest) - see Flyer later in this Newsletter for more info.

Cont'd on page 6

OVH CLUB EVENTS:

Nothing special to report, except that the next regular OVH meeting will be on Tuesday evening, January 17, 2023 at the usual time and place.

HAM RADIO OPERATING / CONTEST EVENTS:

March 18 -19, 2023, Sat. thru Sun., with two separate operating time ranges, the Virginia QSO Party. This is a big event each year, with lots of participants. For more info, go to: https://www.qsl.net/sterling/VA_QSO_Party/2023_VQP/2023_VQP_Main.html If and when filing a log, be sure to indicate your affiliation with the OVH Radio Club.

CHECK other sources for more. The ARRL maintains a Contest web page at its web site at ARRL.org, 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://contestcalendar.com> by WA7BNM. If you get the radio contesting bug or just want to find out and how much is going on - a lot is going on, these are very good places to look!

PUBLIC SERVICE / ARES EVENTS

January 21, 2023, Saturday, at 0900 - the first PWCARES Training meeting to be held at the EOC (Owens Building, 3 County Complex, Prince William, Virginia.

Check the online Calendar on the OVH's web site at W4OVH.NET for information about upcoming OVH related events. Also, check the online Calendar maintained by David / KG4GIY at <http://pwcared.org> for the latest PWC ARES updates. Complete direct contact information for David also appears on page 2 of this Newsletter.

OVH November 15, 2022 Meeting Presentation on Quantum Computing

OVH member, Bruce / KN4GDX gave a speaking slide presentation on the subject: "Quantum Computing (for Amateur Radio?)" during the November 2022 OVH meeting. A number of the slides are reproduced below for those who were unable to attend the meeting or have not yet looked at the full set of the slides which are available by login to the Members Only pages on the OVH's web site. These slides may pique your interest to pursue this topic further or in more depth and Bruce helpfully provided several references for those that might be interested in doing just that.

Bruce noted near the beginning this was probably a "first" for this presentation topic at a ham radio club meeting. Your writer who was present certainly agrees: quantum computing is a complex, still developing, very advanced topic relating to quantum physics and computation which perhaps may become relevant to ham radio at some point in the (distant - decades from now?) future, but which at this point is not even mentioned in the index (or text) of the just published 100th Edition of the ARRL Handbook.

Despite the obscurity for the topic, all OVH members present watched and listened attentively. Perhaps some had also made an effort before the meeting to inform himself/herself about this subject as did your writer. I had consulted both

Wikipedia and MIT's OCW web site, even though I already knew a bit about the topic - but not very much - as a long term member and a reader of IEEE and AIP publications. See, https://en.wikipedia.org/wiki/Quantum_computing Also take a look at <https://ocw.mit.edu> Once at the OCW site, input "Quantum Computing" to the Search Box and then press Search which will give you a listing of MIT courses relating to Quantum Computing, with links to free, online materials for each of those courses.

With this quick introduction, following are just a few of Bruce's twenty-seven slides .Some are cropped. Go the OVH's Members Only web page to access all of them:

Quantum Computing

... For Amateur Radio?



Bruce Crandall, KN4GDX
kn4gdx@gmail.com

Quantum 'Ham Shack'



Fundamental Ideas of Quantum Mechanics -- and Quantum Computing

<https://research.ibm.com/blog/quantum-challenge-fall-2022>

Measurement

- ▶ A Quantum **State, Qubit**, turns into a Classical State as soon as we measure it

Superposition

- ▶ Qubits can be in multiple states at the same time

Entanglement

- ▶ **Systems** of Quantum **states**, aka Qubits, can be so closely tied together that one cannot be described without describing the other (**Einstein's 'spooky action at a distance'**)

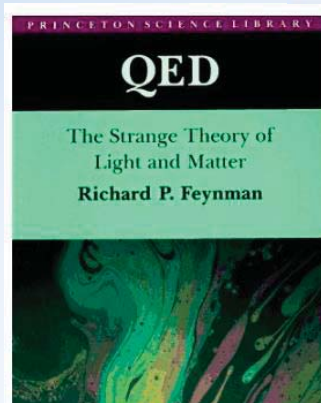
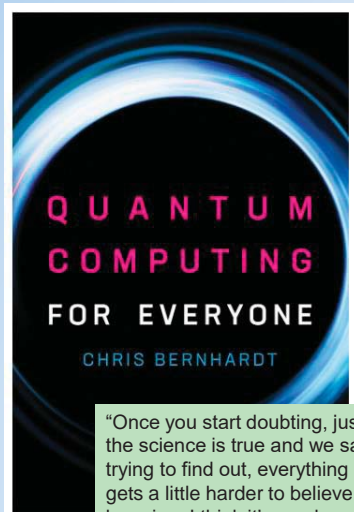
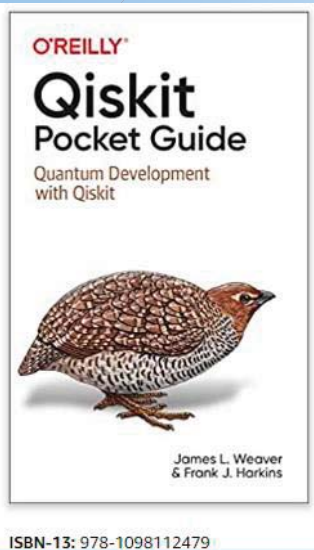
Interference

- ▶ Interactions among States of Qubits in a System

Physicists Alain Aspect, John Clauser and Anton Zeilinger have won the **2022 Nobel Prize in Physics** for experiments that proved the profoundly strange quantum nature of reality. Their experiments collectively established the existence of a bizarre quantum phenomenon known as **entanglement**, where two widely separated particles appear to share information despite having no conceivable way of communicating.

Cont'd on page 8

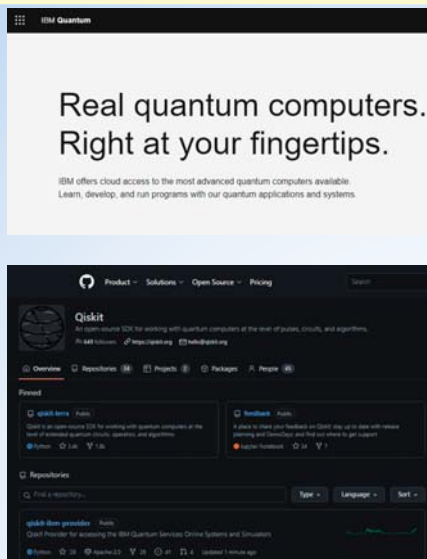
Resources – Available on Amazon, etc.



“Once you start doubting, just like you’re supposed to doubt. You ask me if the science is true and we say ‘No, no, we don’t know what’s true, we’re trying to find out, everything is possibly wrong’ ... When you doubt and ask it gets a little harder to believe. I can live with doubt and uncertainty and not knowing. I think it’s much more interesting to live not knowing, than to have answers which might be wrong.” **Richard Feynman (1981)**

Learning Resources

- ▶ Udemy and other online courses
- ▶ IBM Quantum, Qiskit
- ▶ Github (github.com/QISKit/)
- ▶ Reddit – Q&A, Careers, etc.
- ▶ Physics Today, AJP
- ▶ IEEE – Quantum Subgroups
- ▶ Investment Resources, WSJ, etc.
- ▶ Amateur Radio – *This may be the first! ... and maybe only!*



..and Classical Gates

- Voltage levels in a transistor or in an electrical relay switch
- Charge well in a cathode ray tube
- Mechanical rotation state of a metallic gear in a Babbage machine

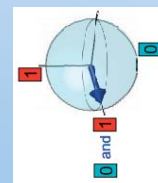
Classical “two-level system” (BIT)

- **Anything that could be in two well defined states**
- Quantum “two-level system” (Qubit) **..and Quantum Gates**

- Shining lasers on atoms, or engineered crystals
- Applying magnetic fields to superconducting junctions
- Controlling the movement and “rotation” of electrons
- Very weak power pulses in complex interferometers
- Semiconductor wires in proximity of superconductors

Anything that could be made sufficiently small, cold and noise-protected

What is a Qubit??



6 IBM, Qiskit <https://qiskit.org/textbook/ch-states/representing-qubit-states.htm>

With vectors we can describe more complex states than just $|0\rangle$ and $|1\rangle$. For example, consider the vector

$$|q_0\rangle = \begin{bmatrix} \frac{1}{\sqrt{2}} \\ \frac{i}{\sqrt{2}} \end{bmatrix}$$

To understand what this state means, we’ll need to use the mathematical rules for manipulating vectors. Specifically, we’ll need to understand how to add vectors together and how to multiply them by scalars.

▶ Reminder: Matrix Addition and Multiplication by Scalars (Click here to expand)

▶ Reminder: Orthonormal Bases (Click here to expand)

▼ Reminder: Matrix Addition and Multiplication by Scalars
To add two vectors, we add their elements together:

$$|a\rangle = \begin{bmatrix} a_0 \\ a_1 \\ \vdots \\ a_n \end{bmatrix}, |b\rangle = \begin{bmatrix} b_0 \\ b_1 \\ \vdots \\ b_n \end{bmatrix}$$

$$|a\rangle + |b\rangle = \begin{bmatrix} a_0 + b_0 \\ a_1 + b_1 \\ \vdots \\ a_n + b_n \end{bmatrix}$$

And to multiply a vector by a scalar, we multiply each element by the scalar:

$$x|a\rangle = \begin{bmatrix} x \times a_0 \\ x \times a_1 \\ \vdots \\ x \times a_n \end{bmatrix}$$

Since the states $|0\rangle$ and $|1\rangle$ form an orthonormal basis, we can represent any 2D vector with a combination of these two states. This allows us to write the state of our qubit in the alternative form:

$$|q_0\rangle = \frac{1}{\sqrt{2}}|0\rangle + \frac{i}{\sqrt{2}}|1\rangle$$

The Ole Virginia Hams Amateur Radio Club

Is happy to announce they are hosting a

Ham Radio Tail Gate Party

Saturday, June 3rd, 2023

8 am to 2 pm

RAIN DATE – SATURDAY, JUNE 10TH - SAME TIME, SAME LOCATION

Across from Signal Hill Park in Manassas Park

General Admission \$5 per person over 18

\$20 per vehicle to set up (includes 1 admission ticket)

All attendees will park in the field

38° 45.2710'N, 77° 26.2800'W

Signal Hill Park address is 9300 Signal View Dr. Manassas Park – the field is located on Signal View Drive across the street from the park entrance

The field is on the east side of Signal View Drive just past the National Monument for the First Battle of Manassas

More information www.w4ovh.net



REMINDER



Yes, it is that time of year again!!!! Below is the 2023 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 2023

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 **\$25.00** per year and payable on January 1, 2023. Dues for each additional family member living at the same mailing address are \$12.50. Dues for a full time student at the college undergraduate or lower level [list school attended and grade or level:
_____] are \$12.50.

NAME AND CALL OF FAMILY MEMBERS: AMOUNT ENCLOSING: _____
Name: _____ Call: _____
Name: _____ Call: _____

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

Remember, you can also renew online at <https://w4ovh.net/pay-ovh-dues>

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