

# OLE VIRGINIA TIMES

## April 2023

### Next Monthly Meeting: Tuesday, April 18, 2023

#### PRESIDENT'S LETTER:

Greetings to all.

Some of you probably know that April 3rd, 2023 was the 50th Anniversary of the Cellular Telephone. Inventor Martin Cooper of Motorola used the first portable handset to make the first cell phone call to his rival at Bell Labs. Way to rub it in, Marty.

From 1973 to now, there has been an incredible proliferation of cellphone devices. It seems like everyone has one and many have more than one. Yet, when I ask my students, mostly middle aged, "How many radio circuits are in an average smartphone?", I usually receive responses (guesses) all over the map. To be fair, some of the dispersion in the typical answers I receive depends upon what different responders think I mean by "radio circuits," but I have determined that many of the responders simply have no idea or clue. Regardless, according to my "reliable sources", there are typically five "radio circuits.": The phone itself is the first one; then wi-fi; Bluetooth; GPS and Near-Field Communication ("NFC") which you may know as "Google Pay" or "Samsung Pay".

This is another reason why our VE Sessions are so important. Far from being "an old man's hobby", Amateur Radio inherently involves old as well as current radio technologies which are modern, rapidly evolving technically. Those who understand modern radio technologies well are very much in demand.

Cellphones, RFID, tablets, phablets, mobile devices of all kinds - we live in a time when radio and the need for radio has never been greater. The paradox to me then is that while so many people, especially the young, know of these devices, they don't



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# Ole Virginia Hams Amateur Radio Club, Inc.

Post Office Box 1255  
Manassas, Virginia 20108

## OFFICERS

|            |               |        |          |
|------------|---------------|--------|----------|
| President: | Ken Brant     | KN4DD  | 622-2638 |
| Vice Pres: | Gil Thompson  | KM4OZH | 369-0431 |
| 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 |        |          |

## TAILGATE (HAMFEST) 2023 - CHAIRMAN

|     |        |          |
|-----|--------|----------|
| Don | WA2SWX | 597-3211 |
|-----|--------|----------|

## FIELD DAY 2023 - CHAIRPERSON

|  |        |              |
|--|--------|--------------|
| Cat <a href="mailto:otohime.1978@gmail.com">otohime.1978@gmail.com</a> | KM4PBD | 571-213-2179 |
|--|--------|--------------|

## CLUB ROSTER / DATABASE

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

## EDUCATION

|      |        |          |
|------|--------|----------|
| Mark | WA4KFZ | 818-8033 |
|------|--------|----------|

## CLUB EMERGENCY COORDINATOR

Open - volunteer needed!

## ARES - EMERGENCY COORDINATOR

|   |   |          |
|---|---|----------|
| David Lane  | KG4GIY  | 628-3868 |
| See <a href="http://pwcares.org">http://pwcares.org</a> | email: <a href="mailto:kg4giy@arrl.net">kg4giy@arrl.net</a> |          |

## 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 <a href="mailto:andy@gamponia.com">andy@gamponia.com</a> | KJ4MTP | 785-4651 |
|---|--------|----------|

## WEB COMMITTEE — W4OVH.NET + Twitter & Facebook

|       |        |              |
|-------|--------|--------------|
| Kevin | W4RKU  | 540-445-5183 |
| John  | KG4NXT | 257-3566     |
| Ken   | KN4DD  | 622-2638     |

Web Committee "help request" email: [webmaster@w4ovh.net](mailto:webmaster@w4ovh.net)

## EMAIL REFLECTOR — [w4ovh@googlegroups.com](mailto:w4ovh@googlegroups.com)

|      |        |          |
|------|--------|----------|
| John | KG4NXT | 257-3566 |
|------|--------|----------|

## MANASSAS CHRISTMAS PARADE - OVH COORDINATOR

|        |       |          |
|--------|-------|----------|
| George | K4GVT | 791-5956 |
|--------|-------|----------|

## LEGAL

|     |       |          |
|-----|-------|----------|
| Bob | K4HJF | 282-2451 |
|-----|-------|----------|

## MEMBERSHIP CHAIRMAN

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

## NEWSLETTER

|      |      |          |
|------|------|----------|
| Paul | W4ZB | 754-0910 |
|------|------|----------|

## CHRISTMAS / YEAR END PARTY - CHAIRPERSON

|          |        |          |
|----------|--------|----------|
| Theresa. | KG4TVM | 257-3566 |
|----------|--------|----------|

## PROGRAMS

|      |        |          |
|------|--------|----------|
| Tony | KM4KLB | 331-3705 |
|------|--------|----------|

## 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 |
|-------|-------|--------------|

## W4PVA — TRUSTEE

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

## SCHOLARSHIP 2022

|     |       |          |
|-----|-------|----------|
| Ken | KN4DD | 622-2638 |
|-----|-------|----------|

## SUNSHINE

|        |        |          |
|--------|--------|----------|
| Andrea | KI4SXM | 868-5363 |
|--------|--------|----------|

## 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 |
|---------|--------|----------|

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](mailto:paul@w4zb.com). Approx. Circ.: 170. Last Rev: 20230316

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recognize that it is radio that they all have in common.

Our Training Officer, Mark / WA4KFZ, offered “You got your first FCC License, now what?” type courses before the pandemic interrupted him. He was on the right track. Your Officer Cadre now gets license and contact information about new hams (and hams that upgrade their licenses), from our new leadership at ARRL Roanoke Regional HQ.

Letters will go out from the OVH this week to those nearby new hams introducing our club to those folks, offering them a chance to visit our monthly meetings at no obligation, to visit us on Field Day, and to visit our Tailgate Party.

Lastly on this point, we have scheduled OVH's own VE Session for May 27th, 2023. We will be at: Lord of Life Lutheran Church; CLIFTON CAMPUS, 13421 Twin Lakes Dr., Clifton, VA 20124. VEs are asked to please volunteer.

March 26th was The Manassas “TUNE UP TRI” event of the Tri-It-Now event series. This was the first event of the season. We were able to make it work, although we were short 3 positions. A heartfelt thank you to the 7 who were able to work this event: Andy / KJ4MTP (always our Lead Sled Dog); David / KG4GIY; Ken / KN4DD; Greg / KM4CCG; John / KG4NXT; James / KQ4CAX and Lynn / KX4HR. We could have used a bit more help. Please consider volunteering for our next Tri-It-Now event on June 11th.

A number of our members also participated in the VAQP (Virginia QSO Party) back on March 18th – 19th. I hope everyone remembered to put the OVH down as their Club on their logs when they submitted them. If you haven't yet submitted your logs, you have until April 15th, 2023. Submit log entries by online portal or mail to: The VA QSO Party, Call Box 599, Sterling, VA 20167, or email them to: [vqp@verizon.net](mailto:vqp@verizon.net). If you have problems, please send an email to [vqp@arrl.net](mailto:vqp@arrl.net).

Speaking of April 15th, Income Tax Day this year is moved to April 18th. Make sure your rich Uncle Sam receives his proper documentation from you on time.

Our monthly breakfast returns this Saturday, April 15th at 8:00 AM. We get together every Saturday before our meetings at a table or two in the back of Yorkshire Restaurant for some good food and good conversation. Yorkshire Restaurant, 7537 Centreville Rd., Manassas, VA 20111.

Our upcoming regular monthly OVH meeting will be on Tuesday, April 18th, 7:30 PM – 9:00 PM EDT at the Buckhall VFD Hall, 7190 Yates Ford Road, Manassas.

John / KG4NXT, will present a video on “How to Build & Fly a Kite Antenna” for the presentation. I have previewed it, and I promise you, it is both interesting and very well shot.

Speaking of projectors, all of you meeting attendees know that we have been experiencing adventures these last few meetings with the projectors that the VFD has loaned us. I am happy to announce that the OVH now has a new (to us) data projector of our very own. The projector was donated by John / KK4TCE, who said he didn't “want a lot of fanfare”, so I'll only mention it once. Thank you, John! Acquiring a projector was

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only part of the effort. We had to verify that the projector could throw a beam the 27 foot length of the VFD training room and would work with our equipment which required identifying and purchasing an adapter. A second thank you then, to the Projector Team: Jay / NQ4T; John / KG4NXT and yours truly, Ken / KN4DD. Quite a few man hours went into this project and on very short notice, too.

The Virginia QSO Party Award Presentations with Gordon Miller, NQ4K, will take place at our Tailgate Party (in lieu of a Hamfest) on June 3rd, 2023 at 11:00 AM.

Speaking of the OVH Hamfest, we're replacing it with the OVH Tailgate Party for 2023. The date is June 3rd as I just mentioned above, but only if the weather is good. We have a rain date of June 10th as OVH;s "Plan B". Planning is well underway, as is 2023 Field Day planning. Both committees could use some extra help. If you have the time and inclination, we'd love to see you there.

Looking to the slightly further future, the SOWW Warrior Bike Ride is happening again. The event will be on September 9th this year, and numerous volunteers will be needed for this very large event. If you are able to help, please save the date. Additional information on the event and where to sign up will be passed along when I get it.

Remember to check in to the OVH's Thursday night VHF/UHF repeater net at 8 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@arrl.net](mailto:KN4DD@arrl.net)

73 Ken KN4DD

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## Sunshine Corner

Happy Birthday wishes to our club members celebrating this April: Harry/KC9TXL, Brian/KK4CBS, Harry/KN4UY, Gene/KN4JMB, Gil/KM4OZH, Paul/N4PD, Joe/KI4QHR, Lillian/KK4MXY, David/KI4AZX, Paul/W4ZB, David/KD4DEE, Mark/KN4OGC. Hope you all have wonderful birthdays with lots of candles!



Congrats to one of our own Bill / AF4LL has gotten the Worked All States (WAS) award for the 10 meter band. Not very easy to do!. When he moved from Kentucky, he had to start over because all WAS contacts have to be within 50 miles of each other, AWESOME!!! Congrats Bill!!!! See, the OVH website at <https://w4ovh.net> for more.

Tri It Now – Reminder all events are held on Sunday mornings and last typically from around 0700 to around 10:00 or 10:30 for our support role. The next event on June 11, 2023. See more at: <https://www.triitnow.com> Also, contact Andy Gamponia at email: [andy@gamponia.com](mailto:andy@gamponia.com) to sign up. The Tri It Now events schedule should be on our W4OVH web site event calendar to show all of the upcoming 2023 Tri It Now mini triathlons and races and the calendar widget on the right side of our web site will show a link for our

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upcoming calendar events.

Upcoming at Prince William Forest Park event:  
The 24-hour Ultra Marathon will be on Saturday and Sunday April 22nd and 23rd in the Prince William Forest Park. Please reach out to [robin.williamsx@gmail.com](mailto:robin.williamsx@gmail.com) to participate and help out with comm support. He is actively recruiting.



Reminder for the upcoming Tailgate Committee / Field Day Planning meeting to be held on May 9th at 6:30 pm at Sam & Joes. Come out and enjoy a Great Dinner!!!! Please contact Chairwoman Cat, KM4PBD, if you can help out with this, or you can go to the OVH web page Membership link on the top menu bar and click it. Then, at the dropdown, click on members page, and there you see “Tailgate 2023” and a link. If you click on the link, then you will have spreadsheet of the volunteer list. Please type in your name and call sign (if you have one) into one of the blank lines, if not call sign, just hit enter, then your information will be saved automatically.

The OVH’s weekly VHF/UHF radio net is every Thursday at 8:00 pm. Please join us, to say hello and hear up-to-date club news. Go to the [w4ovh.net](http://w4ovh.net) web site for more details. 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 is now doing the Sunshine Corner round up so please send her all of the information you would like to be included. Happy Ham’in

73 Andrea / KI4SXM [sunnybeach4us9@gmail.com](mailto:sunnybeach4us9@gmail.com)

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## Minutes of the Ole Virginia Hams Amateur Radio Club Informal Meeting held on Tuesday, March 21, 2023:

OVH President, Ken / KN4DD, called the meeting to order at 7:30 pm on March 21, 2023 in the training room at the Buckhall Volunteer Fire Department Station. After the Pledge of Allegiance, all present stated their names and callsigns.

Bruce / KN4GDX gave a program on Fox Hunting and High Altitude Balloons. The fire house projector was not working and we were not able to see his well-prepared slides. They are available on [w4ovh.net](http://w4ovh.net). Logon, click Membership (Members Only and login) and then click presentations.

The minutes of the February 20, 2023 OVH meeting were approved.

John / KG4NXT gave the Treasurer’s report as provided by Don / WA2SWX and the report was approved.

Luther / WA3FMO gave the membership report: no read-ins or vote-ins this month.

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ARES: No report this month.

Repeater report: Ken / KE2N advised everything is working, including the DStar, 2 meters, 440 and Wires-X.

Training report: Mark / WA4KFZ gave asked for training suggestions. There was discussion of room availability for VE sessions, including for a VE session to be scheduled soon.

Scholarship report: Ken / KN4DD advised that in light of the projected 2023 OVH budget deficit, the OVH is suspending the Steve Frick scholarship for one year (2023). We plan to revive it next year (2024).

Tailgate report: Don / WA2SWX, John / KG4NXT and Theresa / KG4TVM distributed tailgate flyers at Vienna Wireless' Winterfest event. The flyer was also sent to our vendor list; and to our previous attendees list. We need members to volunteer to assist at the Tailgate event. Logon to w4ovh.net, click on Membership, then click on the members page. You will see a link for tailgate. Click on it and add your name on the spreadsheet. No "enter" is required.

Field day report: We had a Field Day planning meeting on March 7th. Bruce / KN4GDX will run our fox hunt. Ron / K3FR will do the bulletin. John / KG4NXT and Bruce will do the message to the Section Manager and message passing.

Web committee report: Ken / KN4DD advised there had been many attacks from Singapore but the defenses have held up.

Andrea / KI4SXM gave the Sunshine report and asked for the birthday month from members who have not provided it. Year is not necessary. Andrea will be the Chef at Field Day in June.

Bruce / KN4GDX won the 50/50 raffle and donated his winnings to the club.

Old Business: None; New Business: None.

The meeting was then adjourned.

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## **Reminders about some upcoming events / calendar dates:**

### **HAMFEST AND VE SESSION TYPE EVENTS:**

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.

### **OVH CLUB EVENTS:**

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.

Saturday / Sunday, June 24 and 25, 2023, OVH / ARRL Field Day event at the Nokesville Park. This is a major club event each year. More details to follow.

## HAM RADIO OPERATING / CONTEST EVENTS:

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

Tri-It-Now event, Sunday morning, June 11, 2023. OVH will provide comm support for this event. Event info at: <https://www.triitnow.com> Also, contact Andy Gamponia at email: [andy@gamponia.com](mailto:andy@gamponia.com) to sign up to assist with comm support.

Also 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.

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## Some Possibly Useful or Interesting Information

I am going to briefly discuss, without delving directly into the mathematics behind it, a very fundamental concept (theorem) relating to signal processing: sampling of a bandlimited, continuous analog signal. In the early 1960s when I first learned about this topic, it was referred to as the Nyquist sampling theorem for sampling an analog signal at the Nyquist rate; The Nyquist sampling rate was a rate equivalent to twice the limited bandwidth of the continuous analog signal. This idea provides a fundamental basis for many (but not all) types of Analog-to-Digital and Digital-to-Analog converters and conversion techniques which are now very common in many types of electronic systems, including radios of all types.

Use of mathematical procedures known as Fourier transforms are needed to shift back and forth between the time and frequency domains to demonstrate this theorem which is now most commonly referred to as the Nyquist-Shannon Sampling theorem. See, the (English) Wikipedia under that topic for more details. It turns out, that Harry Nyquist, at Bell Labs, was originally credited for this in the West, later credit was also given to Claude Shannon also at Bell Labs (and later at MIT). Both Nyquist and Shannon are very well known for many other aspects of their respective work. Shannon, for example, is universally credited and recognized as the originator of Information Theory. It turns out that Vladimir Koltelnikov, a Russian electrical engineer, in the early 1920, was actually the first to publish about this subject (in Russian only); Nyquist's and Shannon's later work was done independently as neither was aware of the publications in Russian. See, German and Russian Wikipedia versions for more details. Koltelnikov's original paper is now available in English translation.

Regardless who is credited, this theorem has very broad implications to modern electronic systems of all types: it holds that sampling of a bandlimited analog signal at a rate equivalent to just twice of the analog bandwidth, and preserving just those sample values (at arbitrary precision) and then processing them, allows one to reconstruct the original, continuous analog signal to arbitrary fidelity. This is truly an astonishing result: it means a sequence of discrete values can be used to reconstruct a bandwidth limited, continuous analog to arbitrary fidelity!

# **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 10<sup>TH</sup> - 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](http://www.w4ovh.net)**

