

Charles
County
Amateur Radio
Club

Inside this issue:

activities	12
Crossword	11
Advanced Tech	7
Practice questions	8
contests	13
Wireless on the web	4
Minutes	16

Smoke Signals



Volume 23
issue 6

June 2020

June Zoom meeting 5th @ 1900

CALENDAR

June

03 Net 2030

05 VE session &
Club meeting

10 Net 2030

17 Net 2030

24 Net 2030 &

News articles due

27-28 Field Day

July

01 Net 2030

03 meeting

08 Net 2030

15 Net 2030

22 Net 2030

29 Net 2030 & News
articles due

THE PRESIDENT'S WORKBENCH

As I am writing this column we are one day away from Charles County finally opening to the Phase 1 level of Governor Hogan's Roadmap to Recovery. According to Governor Hogan in his press conference last night, we will likely be at this level for 14 days. If the numbers of CoVid-19 hospitalizations continues a downward trend then we will likely move into Phase 2.

What does that mean for the CCARC? It means we can't have our regular meeting in June as the meeting hall will remain closed. Likewise, we can't hold our license exam session in June. If we should decide to do something as a group, say participate in a special event station, hold a picnic, etc., we can have no more than 10 people in the

group.

As such, we will hold a virtual meeting for our June meeting on Zoom. Stay tuned for information regarding how to log in.

Speaking of which, Zoom recently did an update to their system. If you haven't run the update I suggest you do it now. Some people have had issues with not being able to log into their account until they update, others can't log in after they update. If you fall into the latter category simply uninstall Zoom and reinstall it.

At the moment plans for summer Field Day are partially in limbo. If all goes well with the pandemic recovery we will likely be in Phase 2 by

(Continued on page 2)

(Continued from page 1)

Field Day. Phase 2 will allow larger group gatherings but will still require social distancing, and likely the wearing of face masks. Again, stay tuned for updates of the status for the club's participation in summer Field Day.

We need to start seriously thinking about, and planning for, our support of the Indian Head 100 Bike Ride in September. As we have been saying since the 2019 ride, we have been asked to provide more in the way of support. In addition to communications posts at each rest stop and the ride headquarters, they have asked that we equip each SAG wagon with a ham operator and an APRS tracker.

We are about 3 months away from the ride at this time. Prior to the pandemic shutdown, some APRS testing along the route was performed by Bob, KB3KOW. What was learned is that most of the route has only spotty APRS coverage, at least when using a 5 watt radio and magnet mount antenna.

I have assembled a digipeater for the cause and, as with everything else, testing got put on hold due to the pandemic. Hopefully testing of the system will resume very soon. We will likely need more than just one digipeater to cover the entire course so if you've been wanting a reason to build one, here it is. It would be especially helpful if the digipeater would include an iGate, even if it is receive only. Bob and I will have more information coming out soon and will be happy to assist with construction and testing.

We are hoping to have some presentations between now and the bike ride on ways to improve your portable communications stations. Topics will include ways to keep your batteries charged via solar energy, making a DC power extension cable so you can operate off your car battery, and ways to resolve the voltage drop on long power cables during transmit to name just a few.

In the meantime, please be safe and stay healthy.



by Bob, NW3M

CCARC weekly net

Charles County Amateur Radio Club will start a
147.195 MHz, + 600 offset, PL 156.7 Hz. each
Wednesday 2030 local time

Nets will be roundtable type with a question of the
week for discussion. All amateur radio operators
are welcome; please join in the fun!

If you have a question or topic you'd like to
discuss please let Michelle or Bob know

HAMFESTS

None listed locally for June
Father's day fest cancelled;
next listed is in October.



Wireless on the Web



The Lowdown on the Low (Frequencies)

I've related in previous columns how my first experiences in shortwave listening and AM DXing began while I was in junior high school in the mid/late 1960's with a vintage floor model Zenith radio. My interest in those activities was rekindled in the mid 1980's when I related to my wife how I used to enjoy listening to shortwave radio. Later that year she surprised me on my birthday with a Realistic DX-360 AM/FM/SW/LW receiver. A few months later I discovered "Popular Communications" magazine that further heightened my interest.

One thing I knew absolutely nothing about was the long wave band. The DX-360 covered to portion of the long wave band from 150 to 265 kHz. As this was 35 years ago, there was no Internet for me to research the topic. Fortunately a coworker had some reference books and there was a long wave column in PopComm. The long wave band(s) are used for a variety of functions including time stations, weather broadcasts, navigation beacons and even some broadcasters in other parts of the world. There is a dedicated group of listeners who search out these beacons from all parts of the globe. If you'd like to learn more about long wave radio, here are some links that may be of interest: From DXing.com: <https://www.dxing.com/lw.htm>
From Wikipedia: <https://en.wikipedia.org/wiki/Longwave> and https://en.wikipedia.org/wiki/Low_frequency

Like many other facets of the radio listening hobby, long wave radio has its own specialty group. Here in the US, the best known is the LWCA (Long Wave Club of America).

The LWCA can be found at: <https://www.lwca.net/> and https://www.lwca.net/about_lwca.html

Realistic DX-360 Long wave band at the bottom of the tuning scale



(Photo courtesy eBay)

Field Day 2020:

June has arrived, the highlight for many amateurs occurs at the end of the month with Field Day. The dates this year will be Saturday, the 27th and Sunday the 28th. I've not heard, or seen, a lot of discussion regarding Field Day thus far. Perhaps I'm out of the loop or the prospect of Field Day in this age of "social distancing" (If I never see or hear that term again it will be too darn soon!) and Coronavirus fears has put a damper on things. I'm sure that the topic of CCARC's Field Day will be discussed by others in this issue. Here are a couple of links to the ARRL website regarding Field Day 2020:

Field Day: <http://www.arrl.org/field-day>

Special statement regarding Field Day and Covid-19: <http://www.arrl.org/covid-19-and-arrl-field-day-2020>

Temporary waivers for Field Day 2020: <http://www.arrl.org/temporary-rule-waivers-for-arrl-field-day-2020>

Some scanner frequencies of interest:

Chuck Gysi, N2DUP, the editor and publisher of National Communications, provided a listing in the May/June 2020 issue of 10 unusual frequencies that those of you who monitor scanners might like to program for some listening opportunities. They are as follows:

145.800 MHz International Space Station amateur radio

150.000 MHz (Really anywhere 149.910 to 150.012) A number of satellites use frequencies in this range. A listing of satellites utilizing this frequency range, and others, can be found here:

<https://www.zarya.info/Frequencies/Frequencies150.php>

151.625 MHz Itinerant business frequency with many users

454.000 MHz (Paired with 459.000) this is used for oil spill cleanups

171.905 MHz (Also 169.505, 170.245, 171.045 and 171.105) Used for wireless microphones. Listen to Burger King, McDonalds, Roy Rogers and Taco Bell screw up other people's orders

47.42 MHz American Red Cross national frequency

29.600 MHz Amateur radio 10 meter frequency, can be very active when conditions are right. In fact, it was very active when I drove in to work this Saturday (May 30th) evening

462.5625 MHz FRS (Family Radio Service) channel #1 I've been hearing activity on this frequency, usually children, who will likely stay active until the batteries run down in their inexpensive handhelds

123.450 MHz Unofficial chatter by airline pilots

315.000 MHz Finishing our list is probably the most unusual frequency of all, this low power frequency primarily used by garage door openers. If you have a garage door opener, this can alert you to when your (Or your nearby neighbor's) garage door is being opened.

Summer 2020

Summer arrives in the northern hemisphere on Saturday, June 20th, at 5:44 PM EDT (Or 2144 GMT, if you prefer). Often referred to as "the longest day of the year" it is really a misnomer, there are actually 11 "longest days of the year" this year, based on the latitude and longitude for La Plata. From June 16th through 26th we will experience 14 hours and 51 minutes of daylight. On the 27th the length of the days start becoming shorter by a minutes or two per day until we reach the winter solstice in December. If you'd like to read more about the summer solstice, here's some information from the Farmer's Almanac:

<https://www.almanac.com/content/first-day-summer-summer-solstice>

That's it for this month. If you have topics you'd like to see covered or have a suggestion for a future article, I always welcome input at aa3rt2@verizon.net

73, Art, AA3RT / WQZD805



Advanced Technical Information Online

By Bob, NW3M

As Field Day nears I am reminded of Field Days past. I remember sitting in a screen tent year after year with the headphones on feverishly trying to work all those weak stations I had passed over while hastily gobbling up all the strong stations that abound. It's bad enough trying to pull those weak signals out of all the din and clatter of an active band, with dozens of other stations calling, reporting, and being called just a few hundred hertz away. Then when I was just about to get the report from that weak one I've been patiently trying to pull out of the cacophony, my own fellow team operator on the next harmonically related band below me starts a long, phonetically delivered, multi-repeated transmission to the weak station he/she is trying to work with. All I hear in my headphones is distorted, unintelligible, garbled RF pollution. That's when I wished I had a good, solid, bandpass filter between the antenna and radio to serve as a receiver pre-selector.

In our everyday ham radio experiences on air we usually don't run into that issue. According to City-Data.com, there are 202 amateur radio station licenses in Waldorf. Fortunately for me 200 of them are far enough away from my home to not be a concern for out of band receiver frontend overload. Also fortunately for me, the one that is close enough operates at much different times than I typically operate. Others of you in Waldorf, or maybe another town in Charles County, might not be so fortunate. Imagine trying to work that rare DX station that would be the ultimate feather in your cap on 20-meters when all of a sudden your neighbor from two or three blocks away starts into his 15 minute tirade on his 40-meter curmudgeon net, running full legal power, about his most recent tribulation. You'll wish you had a bandpass filter then also.

There are good quality bandpass filters that you can purchase which all share a common trait; they're quite expensive. And you need one for each band you plan to operate on. So what is a ham to do? The ARRL came to our rescue 32 years ago when they published an excellent article about inexpensive bandpass filters for HF that anyone can build.

The article was written by Lew Gordon, K4VX (SK). In the article Lew explained the theory and design aspects of RF bandpass filters in case you want to experiment. He also provided detailed parts lists, patterns and instructions to build filters for 160, 80, 40, 20, 15, and 10 meters. With his theory and design explanations and the examples given you should be able to easily figure out what is needed to make filters for 60, 30, 17 and 12 meters should you find you need one.

Incidentally, having a bandpass filter in line also helps to reduce any out of band spurious emissions and harmonic signals that your transmitter might be generating.

You can download Lew's article from the ARRL archive with this link.

<https://www.arrl.org/files/file/Technology/tis/info/pdf/8809017.pdf>

Practice questions

1 From which of the following locations may an FCC-licensed amateur station transmit?

- A. From within any country that belongs to the International Telecommunications Union
- B. From within any country that is a member of the United Nations
- C. From anywhere within International Telecommunications Union (ITU) Regions 2 and 3
- D. From any vessel or craft located in international waters and documented or registered in the United States

2 Which of the following is an appropriate receive filter bandwidth for minimizing noise and interference for SSB reception?

- A. 500 Hz
- B. 1000 Hz
- C. 2400 Hz
- D. 5000 Hz

3 In what ITU region is operation in the 7.175 to 7.300 MHz band permitted for a control operator holding an FCC issued General Class license?

- A. Region 1
- B. Region 2
- C. Region 3
- D. All three regions

4 What is transequatorial propagation?

- A. Propagation between two mid-latitude points at approximately the same distance north and south of the magnetic equator
- B. Propagation between points located on the magnetic equator
- C. Propagation between a point on the equator and its antipodal point
- D. Propagation between points at the same latitude

Odd & ends

ARRL Field Day – Temporary Rule Waivers Announced for 2020 ARRL Field Day

1) For Field Day 2020 only, Class D stations may work all other Field Day stations, including other Class D stations, for points.

[Field Day rule 4.6](#) defines Class D stations as "Home stations," including stations operating from permanent or licensed station locations using commercial power. Class D stations ordinarily may only count contacts made with Class A, B, C, E, and F Field Day stations, but the temporary rule waiver for 2020 allows Class D stations to count contacts with other Class D stations for QSO credit.

2) In addition, for 2020 only, an aggregate club score will be published, which will be the sum of all individual entries indicating a specific club (similar to the aggregate score totals used in ARRL affiliated club competitions).

Ordinarily, club names are only published in the results for Class A and Class F entries, but the temporary rule waiver for 2020 allows participants from [any Class](#) to optionally include a single club name with their submitted results following Field Day.

For example, if Podunk Hollow Radio Club members Becky, W1BXY, and Hiram, W1AW, both participate in 2020 Field Day -- Hiram from his Class D home station, and Becky from her Class C mobile station -- both can include the radio club's name when reporting their individual results. The published results listing will include individual scores for Hiram and Becky, plus a combined score for all entries identified as Podunk Hollow Radio Club.



The temporary rule waivers were adopted by the PSC on May 27, 2020.

ARRL Field Day is one of the biggest events on the amateur radio calendar, with over 36,000 participants in 2019, including entries from 3,113 radio clubs and emergency operations centers. In most years, Field Day is also the largest annual demonstration of ham radio, because many radio clubs organize their participation in public places such as parks and schools.

Due to the COVID-19 pandemic, many radio clubs have made decisions to cancel their group participation in ARRL Field Day this year due to public health recommendations and/or requirements, or to significantly modify their participation for safe social distancing practices. The temporary rule waivers allow greater flexibility in recognizing the value of individual and club participation regardless of entry class.

ARRL is contacting logging program developers about the temporary rule waivers so developers can release updated versions of their software prior to Field Day weekend.

Participants are reminded that the preferred method of submitting entries after Field Day is via the [web applet](#). The ARRL Field Day rules include instructions for [submitting entries](#) after the event. Entries must be submitted or postmarked by Tuesday, July 28, 2020.

The next exam session is August 7 (if possible)

Volunteer VE's Note:

Now that the political season is here, I'd like to remind everyone that LARC VEC is not a partisan political organization. We as an organization are neither Republican nor Democrat. We serve all comers, despite any political differences between us. We strive to make everyone welcome at our Volunteer Examiner sessions. In the spirit of making everyone welcome, we do not wear or otherwise display at our VE Sessions any partisan political slogans or other memes, whether in the form of tee shirts, hats, buttons, posters or any other format. We do not display at our sessions any signs or stickers supporting or denigrating any candidate for public office.

We are free, of course, to display insignia relating to amateur radio organizations, such as our sponsoring radio clubs, QCWA, ARRL, FISTS, AMSAT or other radio clubs. The J-38 code key logo of LARC VEC may be freely displayed by our VE Teams.

If your car or other vehicle has political bumper stickers, that is not an issue, because a car parked in a parking lot near the session is not identifiable with the session. The exception would be if your vehicle is connected with the VE Session, such as a VE Session held in your motor home. In those cases, please cover the political stickers until after the session is complete.

This email applies to our volunteers, and is not intended to limit our applicants.

If you have any questions, please contact your Regional Coordinator or Diane Zimmerman AA3OF Chairman, Laurel Amateur Radio Club Volunteer Examiner Coordinator

Pins

Across

- 1. Tube connection*
- 5. Close-knit group
- 10. Tube conn.*
- 14. Verdi opera
- 15. Ten-Tec rig
- 16. Ten-Tec rig
- 17. After-bath powder
- 18. Kazakhstan prefix
- 19. Bushel quarter
- 20. With 53 across, describes the * words
- 22. Analyze syntactically
- 23. Window alternative
- 24. ARRL org. pertaining to SS, others
- 25. Beast of burden
- 28. Turner of TV channels
- 29. Platform on a ship's mast (a place for a /MM antenna?)
- 33. Odwalla fruit and ____

1	2	3	4		5	6	7	8	9		10	11	12	13
14					15						16			
17					18						19			
20				21							22			
			23							24				
25	26	27		28				29				30	31	32
33			34					35				36		
37							38				39			
40					41				42					
43				44					45				46	
			47					48				49		
50	51	52					53					54	55	56
57							58					59		
60							61					62		
63							64					65		

- 35. Not brilliant
- 36. Best kind of tower
- 37. New England net
- 38. Transistor conn.*
- 39. Singer Ronstadt
- 40. UA assembly
- 41. Cutter
- 42. Digital mode
- 43. Delta follower
- 45. YLRL non-member
- 46. "____ we having fun yet?"
- 47. Caller for calls
- 48. T8 land
- 50. RG8 ground
- 53. See 20 across
- 57. CW
- 58. Thorny
- 59. 7800 maker

- 60. H.S. tests
- 61. Cycle user
- 62. Put one's foot down?
- 63. Transistor conn.*
- 64. TI land first name
- 65. D.C. group

Down

- 1. Tube or Transistor connection*
- 2. EP coin
- 3. Like some chatter
- 4. S2 capital, old-style
- 5. Swift horse
- 6. Noted traitor
- 7. Device with only a 25 down and 10 across
- 8. Recent UA prefix, especially, e.g. M-V Is.
- 9. W1 dir. from W7

- 10. Just fine
- 11. Part of ARRL (abbr.)
- 12. Ckts. for 42 across use
- 13. Go backpacking
- 21. Ten-Tec amplifier
- 22. Golfer's goal
- 24. Computer port type
- 25. Tube connection*
- 26. Gray line time
- 27. Flower towers
- 29. Tube conn.*
- 30. JA poem
- 31. OOTC member, to an OTC member, probably
- 32. Tube connection*
- 34. Smartest
- 35. Jones' partner
- 38. Plains states NTS org
- 39. KH6 porch

- 41. The only CW most people know
- 42. KH5 land
- 44. CRT successor
- 45. OJ0 reef
- 48. What output power does, in resonance
- 49. Ohms, volts, and others
- 50. Transistor connection*
- 51. Drift
- 52. Prefix with VOX
- 53. Kenwood, once
- 54. Antenna farm unit
- 55. "Crazy" bird
- 56. Tiny parts
- 58. Big G SW org.

CCARC Activities

5 June 2020 – Monthly CCARC Meeting at 7:00 PM via ZOOM teleconference.

Join the 5 June 2020 Zoom Meeting via desktop/laptop/smartphone:

<https://us02web.zoom.us/j/81575071176?pwd=T1ZJbGRxVU1KalpHMStFWDFCZDNwUT09>

Dial in via landline/cell phone and follow voice prompts: 301-715-8592

Meeting ID: 815 7507 1176 Password: 894054

Agenda: IH 100 Bike Ride Support Preparation - We will go “around the Zoom room” and ask members to show us/discuss their portable power options (batteries, battery management, solar, generators, etc.).

26 - 28 June 2019 - ARRL Field Day 2020 – (Fourth full weekend in June). Nanjemoy Creek Environmental Education Center (NCEEC), 5300 Turkey Tayac Place, Nanjemoy, MD 20662. Details pending, based on Charles County directives on group gatherings.

3 July 2020 – Monthly CCARC Meeting at 7:00 PM. Activity: 2M Yagi building.

7 August 2020 - Test Session at 5:30 PM followed by Monthly CCARC Meeting at 7:00 PM.

16 August 2020 – 5th Annual Connector Workshop with linked dipole antenna build. 1:00 PM to 5:00 PM, QTH of Jeff – KB3SPH and Pam – KB3SWS.

More information in the document, 2020-08-16-Connector Workshop.docx, available for download at www.smas.us/ConnectorWorkshop.

4 September 2020 – Monthly CCARC Meeting at 7:00 PM.

7 September 2020 - (Labor Day) - Indian Head 100 Bike Ride CCARC Communications Support

Contests in June

RSGB Hope QSO Party	1	+ SMIRK Contest	13 to 14
+ RSGB 80m Club Championship, Data		+ DRCG WW RTTY Contest	
+ Worldwide Sideband Activity Contest	2	+ Portugal Day Contest	
+ ARS Spartan Sprint		+ SKCC Weekend Sprintathon	
+ RSGB Hope QSO Party	2 to 4	+ GACW WWSA CW DX Contest	
+ RTTYOPS Weeksprint		+ REF DDFM 6m Contest	
+ Phone Fray	3	+ ARRL June VHF Contest	
+ CWops Mini-CWT Test		+ RTTYOPS Weekend Sprint	14
+ VHF-UHF FT8 Activity Contest		4 States QRP Group Second Sunday Sprint	15
+ RTTYOPS Weeksprint	4	+ RSGB Hope QSO Party & FT4	15 to 16
10m Activity Contest		+ SARL Youth Sprint	16
+ UKEICC 80m Summer Series		+ RTTYOPS Weeksprint	
+ SKCC Sprint Europe		+ NAQCC CW Sprint	17
+ NCCC Sprint	5	+ Phone Fray	
+ RSGB Hope QSO Party		+ CWops Mini-CWT Test	
+ HA3NS Sprint Memorial Contest		+ RSGB Hope QSO Party	17 to 19
+ RTTYOPS Weekend Sprint	6	+ RTTYOPS Weeksprint	18
+ VK Shires Contest		+ NCCC Sprint	19
+ 10-10 Int. Open Season PSK Contest	6 to 7	+ RTTYOPS Weekend Sprint	20
+ PVRC Reunion		+ Battle of Carabobo International Contest	20
+ DigiFest		+ Feld Hell Sprint	20
+ Wake-Up! QRP Sprint		+ IARU Region 1 50/70 MHz Contest	
+ COVID-19 Radio Communication Event		+ Stew Perry Topband Challenge	
+ SEANET Contest		+ West Virginia QSO Party	
+ UKSMG Summer Contest		+ ARRL Kids Day	
+ Kentucky QSO Party		+ Ukrainian DX Classic RTTY Contest	20 to 21
+ Dutch Kingdom Contest		+ All Asian DX Contest, CW	20 to 21
+ IARU Region 1 Field Day, CW		+ WAB 50 MHz Phone	21
+ KANHAM Contest		+ Run for the Bacon QRP Contest	21
+ Cookie Crumble QRP Contest	7	+ RSGB Hope QSO Party	22 to 25
+ RSGB Hope QSO Party	8 to 10	+ RTTYOPS Weeksprint	23
+ RTTYOPS Weeksprint	9	+ SKCC Sprint	24
+ NAQCC CW Sprint	10	+ Phone Fray	24
+ Phone Fray		+ CWops Mini-CWT Test	24
+ CWops Mini-CWT Test		+ QRP Fox Hunt	25
+ VHF-UHF FT8 Activity Contest		+ RTTYOPS Weeksprint	
+ UKEICC 80m Summer Series		+ NCCC Sprint	26
+ RSGB 80m Club Championship, CW		+ UFT QRP Contest	27
+ RTTYOPS Weeksprint	11	+ RTTYOPS Weekend Sprint	
+ NCCC RTTY Sprint	12	+ Ukrainian DX DIGI Contest	27 to 28
+ NCCC Sprint		+ His Maj. King of Spain Contest, SSB	
+ Asia-Pacific Sprint, SSB	13	+ ARRL Field Day	
+ AGCW VHF/UHF Contest		+ 10-10 Int. Spirit of 76 QSO Party	29
		+ QCX Challenge	29 to 30

Global COVID-19 Radio Event Set for June 6 - 7

Stations bearing call signs that promote the "stay-at-home" message and the value of social distancing and isolation have sprung up during the COVID-19 pandemic, with some 150,000 messages of support shared around the world. An [on-air gathering](#) over the June 6 - 7 weekend will offer a further opportunity for stay-at-home stations and radio amateurs to share greetings in a contest-like framework, looking toward the day that restrictions will ease, eventually making the stay-at-home injunction obsolete.

The patron of the STAYHOME radio [campaign](#) is Finland's Foreign Minister Pekka Haavisto, and the worldwide activity has the endorsement of International Amateur Radio Union (IARU) President Tim Ellam, VE6SH/G4HUA, and the United Nations Amateur Radio Club.



"Amateur radio operators across the world are experiencing something we have never seen before, with the current COVID-19 pandemic," Ellam said. "In times like this, on-the-air activities can benefit our communities and ourselves. Events such as this are important to im-

prove operating skills. It is also encouraging us to get on the air and keep active, as well as promoting social distancing." Ellam expressed thanks to the national regulators in more than three dozen countries that made special stay-at-home-suffix call signs available for amateur use.

Sponsoring the event and campaign are the Finnish Amateur Radio League (SRAL), in cooperation with Araucaria DX Group (ADXG) of Brazil, and Radio Arcala (OH8X) in Finland.

UN Amateur Radio Club President James Sarte, K2QI, has said that 4U1UN will be on the air to support of the global STAY HOME movement, as will sister stations 4U1GSC (operated as 4U9STAYHOME) and 4U1A (operated as 4U2STAYHOME).

Special event station W2I/STAYHOME, helmed by Ria Jairam, N2RJ, and Peter Dougherty, W2IRT, will also be on the air, operating CW, SSB, and FT8 simultaneously. (Jairam is ARRL Hudson Division Director.)

The STAYHOME event gets under way at 1000 UTC on Saturday, June 6, concluding 24 hours later. Bands will include 80, 40, 20, 15, and 10 meters, with CW, SSB, and digital (FT4/FT8 only). Exchange is a signal report and operator age, except for FT4/FT8 reports. Awards and certificates in the various operating categories will be available. [Email](#) for more information.

Special Event Calls June

1 to 7	N6M	250th anniversary City of Monterey
3 to 10	W2W	D-Day Commemoration
5 to 7	N8S	2020 SANGB Open House & Air Show
5 to 7	W7G, W1M, K8E, N1B, W1E, N1S, N7P, N7N, W4D	Museum Ships on the Air
6 to 8	W8I, W2I,	COVID-19 STAY HOME
6 TO 8	N5E	Activation 1877 Tall Ship Elissa, Museum Ships Weekend
12 to 14	W3W	Whiskey Rebellion & Heritage Days
13 to 15	K5K	ARRL June VHF Contest
13 to 15	N2S	Scouting on the Air at Camp Dittmer
13th	W1M	WHOA Weekend/SCOTA
15 to 19	K9T	Indiana South District Wesleyan Church
20th	K7K, K1D	ARRL June 2020 Kids Day
20th	K5E	Treasure Island
28 to 29	K7C, N7T, K3T, K4B,W6E,W4B,N9D, K4O,K5Z,K0T,W2S, K4U,W4E,K5T,N8T,W7C,W9U, W7U, K7A,W4S, N4B, K4F, K2B, W7F, N7A, W7A,W5T,K4P,W7S,W9C,K4T,K4Y,N7E,N4I, W7B, K7T, K4V, W0W, N3A, K7F, W5U, N7T, N2F, W5R, K4K, K3K ,K5R, N3C, N4C, W6A, N8A, W7P, W3D, N4W, N7U, N2H, N5T, K1R, K7Z, K7G, N6M, K1B, K6A, K6V, K0S, N0S, K6T, N0E, N0R, N0A, N5I, W4F,K4C,K0M,W4A,W0F,K3F,W5K,K4W,W9B,N4F,W1A, K7M, W4D, N4V, W4G, N6E, K7I, K0F, W4C, W7L, K9T, W0G, W6R, N4N, W6W, K4J,W4R,W9I,N7K, K7C, N7U, N2H, N5T, K1R, K7Z,K7G,N6M,K1B,K6A,K6V,K0S,N0S,K6T,N0E,N0R,N0A,N5I, W4F,K4C,K0M,W4A,W0F,K3F, W5K, K4W, W9B, N4F, W1A, K7M, W4D, N4V, W4G, N6E, K7I, K0F, W4C, W7L, K9T, W0G, W6R, N4N, W6W, K4J, W4R, W9I, N7K, K7C	ARRL Field Day



Charles County Amateur Radio Club Meeting Minutes

May 1, 2020

Officers Present:

President – Bob Curran NW3M
Vice President – Bob Davison KB3KOW
Treasurer – Pamela Humbert KB3SWS
Activities – Jeff Humbert KB3SPH
Secretary – Charles Hallock AA3WS

Members Present:

Patrick Hinman KB3UYZ
Michelle Sack N3YRZ
Terry Venicasa KC3EIY
Bill Luyster W8BL
Joe Boswell KB3HNP
Billy McConnell
Tom Abernathy W3TOM

Visitors:

None

Meeting opened 1900 Hours.

President Bob Curran NW3M opened the Meeting on ZOOM and welcomed the members. Subsequently, The President asked the Members present to tell the group what they have been doing during isolation.

New Business

President Bob noted to the Club members of future APRS equipment testing to determine equipment needs to support the Indian Head 100 Bike Ride on September 7, 2020.

President Bob requested the members of the club advise if they wished to build a 2 Meter Yagi Antenna at the August Meeting. Bob noted he would send out an email to solicit the number of builders so material can be procured. Bob is self-funding the materials and will have a final price for the kits that will be less than \$20 each.

Treasurer:

Pam KB3SWS gave the Treasurer's Report which was accepted by the members. The Treasurer's Report is attached.

Activities Manager:

Jeff KB3SPH reported on the following upcoming activities:

5 June 2020 - Test Session at 5:30 PM followed by Monthly CCARC Meeting at 7:00 PM.

26 - 28 June 2019 - ARRL Field Day 2020 – (Fourth full weekend in June). Nanjemoy Creek Environmental Education Center (NCEEC), 5300 Turkey Tayac Place, Nanjemoy, MD 20662. Details pending.

3 July 2020 – Monthly CCARC Meeting is at 7:00 PM. with a 2 Meter Yagi Building Project.

12 Aug 2020 – Test Session at 5:30 PM followed by Monthly CCARC Meeting at 7:00 PM.

16 Aug 2020 – Connector Workshop at Pam and Jeff's.

We're always looking for presentations, demonstrations, guest speakers, etc., on various topics to be presented in conjunction with our club meetings. If you have a request for a specific topic, a point of contact for a presentation, and/or you would like to make a presentation yourself, please let Jeff – KB3SPH know at humbert1js@gmail.com.

Secretary:

Minutes for the Meeting are published in the Monthly New Letter.

Old Business

None.

Closing:

A motion was made and seconded to close the meeting. The motion passed at 1949 Hours.

Charles Hallock AA3WS

Secretary

the **MINUTES**



Hams in Action

Emergency Ventilator Designed & Constructed by Hams

On April 24 Radio amateurs delivered an inexpensive ventilator- operational control system, basic manufacturing instructions, software, and software explanation to the University of Florida. It was sent to the FDA for approval for emergency use. Dr. Gordon Gibby, KX4Z, “Bob Benedict, KD8CGH, Jack Purdum, W8TEE, Marcelo Varanda, VA3MVV, Ashhar Farhan, VU2ESE, and other hams coded and worked on mechanical designs for flow measurements, retooled potential manufacturing capabilities otherwise used to produce transceivers, modified a lawn sprinkler to serve as a durable expiratory valve. The prototype was built using typical tools by a radio amateur, assembled boards provided by LifeMech, an extendable menu structure for the Arduino Nano-based controller, and gas-flow measurements are made every few milliseconds by an I2C-based differential pressure transducer that can measure down to tiny PSI fractions, allowing the design to accurately track patient-induced variations in the volume of delivered gasses. He said the current design goes far beyond the FDA’s guidance document for emergency

[http://www.arrl.org/news/emergency-ventilator-designed-and-constructed-by-hams-going-to-fda#:~:text=Emergency%20Ventilator%20Designed%20and%20Constructed%20by%20Hams%20Going%20to%20FDA&text=Radio%20amateurs%20have%20succeeded%20in,Emergency%20Use%20Authorization%20\(EUA\).](http://www.arrl.org/news/emergency-ventilator-designed-and-constructed-by-hams-going-to-fda#:~:text=Emergency%20Ventilator%20Designed%20and%20Constructed%20by%20Hams%20Going%20to%20FDA&text=Radio%20amateurs%20have%20succeeded%20in,Emergency%20Use%20Authorization%20(EUA).)

ANSWERS

G	R	I	D		C	A	D	R	E		C	A	T	H
A	I	D	A		O	R	I	O	N		O	M	N	I
T	A	L	C		U	N	O	N	E		P	E	C	K
E	L	E	C	T	R	O	D	E		P	A	R	S	E
			A	I	S	L	E		C	A	C			
A	S	S		T	E	D		F	O	R	E	T	O	P
N	U	T	B	A	R		D	I	M		T	A	L	L
O	N	E	R	N		C	O	L		L	I	N	D	A
D	U	M	A		S	A	W		P	A	C	K	E	T
E	P	S	I	L	O	N		M	A	N		A	R	E
			N	C	S		P	A	L	A	U			
B	R	A	I	D		T	E	R	M	I	N	A	L	S
A	O	N	E		B	R	A	K	Y		I	C	O	M
S	A	T	S		B	I	K	E	R		T	R	O	D
E	M	I	T		C	O	S	T	A		S	E	N	S

Answers to practice questions

1 D 2 C 3 B 4 A

WANT ADS, FOR SALE, &
PUBLIC SERVICE ANNOUNCEMENTS:




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MARYLAND**

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K3SMD



Charles County Amateur
Radio Club

Service Club

We're on
the web

[http://
k3smd.net](http://k3smd.net)

Meetings, nets, & contacts

First Friday- Monthly meeting @ 7 PM/1900 Charles County Rescue Squad 2 Calvert Street, LaPlata, MD

Net-Wednesdays 8:30 PM local: 147.195 MHz, + 600 offset, PL 156.7 Hz.

PO BOX 169, La Plata, MD 20646

President: Bob Curran NW3M flyingham@verizon.net

Vice-president: Bob Davidson rdavidson@aceweb.com

Secretary: Charles Hallock AA3WS selbynet@hotmail.com

Treasurer: Pam Humbert KB3SWS humbertpj@gmail.com

Activities: Jeff Humbert KB3SPH humbert1js@gmail.com

Newsletter Michelle Sack N3YRZ msack@verizon.net

VE Coordinator Bob Curran NW3M

Leave laughing



The new Mobile Shack ready for field day...complete with all the extras! Take a look at my new 2 meter beam...I shore are proud of it! <http://www.hamuniverse.com/humor.html>