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CALENDAR

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THE PRESIDENT'S WORKBENCH

The State finally moved into Phase 3 of the Maryland Roadmap to Recovery. This was what we've been hoping for in order to get back to in person meetings and holding tests. Unfortunately, the meeting room we have been using is still off limits to the public. The board is currently in search of a place we can hold meetings either temporarily until our current location is once again available, or permanently if it is a more favorable option. We have feelers out to a couple places and are trying to think of others to reach out to. We welcome everyone's input of places we might be able to hold meetings and exams.

In the meantime, our October meeting will once again be held on Zoom. Look for details and a link for joining the Zoom meeting in your email and in the Activity Managers report elsewhere in the newsletter.

The month of October offers seven State QSO Parties for those trying to achieve a Worked All States award. If you're looking for relaxed contests in which to participate, the State QSO Parties might be just the thing. You've probably heard me and others say in the past, participation in contests will help you with sharpening many important radio skills. They help you to learn how to tweak the receive filters in your radios to make the weak signals easier to hear, or to filter out interference. It helps to train your brain to use its own audio filters to further enhance hearing those signals down in the noise. It can help you with learning to copy information quickly and efficiently. But best of all, it can be downright fun.

This month listen for California, Arizona, Nevada, Pennsylvania, South Dakota, New York and Illinois to be on the air looking for contacts.

Along similar lines, there is a Special Event that runs from October 10 through October 18 where you can pick up some very interesting stations to add to your log. The Third Annual Get Your Parks On is an event sponsored by United States World Wide Flora and Fauna where hams activate National and State Parks and Forests. This is a way to pick up states that you might need for award purposes. It is also just a fun time learning about all the many parks worth visiting in this great country.

As you might expect, October also offers several Halloween Special Event stations. Some of them are listed on the ARRL Special Event searchable calendar, others might be found on QRZ or eHam. There are many more that will not be listed in databases at all. Finding those by tuning around the dial on your favorite bands is quite satisfying. Don't forget to tune around bands you don't normally use as you never know where these unlisted stations will show up.

As the weather cools, take this time to inspect your antennas, cables and grounds to make sure they're ready for the winter weather. You never know when a bad winter storm will come up and your radios may be needed. Remember to do those inspections with safety in mind.

Stay safe and have fun on the air.

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

Follow us on Netlogger

Download at https://www.netlogger.org/

HAMFESTS

Next listed in person Hamfest is Santafest in December

(October's CARAfest has been cancelled)

The next exam session for CCARC
February 6, 2021

Practice questions

1 What kind of hazard might exist in a power supply when it is turned off and disconnected?

A. Static electricity could damage the grounding system

B. Circulating currents inside the transformer might cause damage

C. The fuse might blow if you remove the cover

D. You might receive an electric shock from charge stored in large capacitors

2 What is the purpose of a power supply interlock?

A. To prevent unauthorized changes to the circuit that would void the manufacturer's warranty

B. To shut down the unit if it becomes too hot

C. To ensure that dangerous voltages are removed if the cabinet is opened

D. To shut off the power supply if too much voltage is produced

3 What is the turns ratio of a transformer used to match an audio amplifier having 600 ohm output impedance to a speaker having 4 ohm impedance?

A. 12.2 to 1

B. 24.4 to 1

C. 150 to 1

D. 300 to 1

4 If a station in a message forwarding system inadvertently forwards a message that is in violation of FCC rules, who is primarily accountable for the rules violation?

A. The control operator of the packet bulletin board station

B. The control operator of the originating station

C. The control operators of all the stations in the system

D. The control operators of all the stations in the system not authenticating the source from which they accept communications

Odd & ends

ISS gets an FM repeater!

Uplink: 145.99MHz
(PL 67 Hz)
Downlink: 437.80MHz
@hamzahradio

On Saturday, August 22 LoTW experienced a failure of the air conditioning system which cools the room in which Logbook servers are housed. Following up on heat notifications, it was possible for staff to travel to ARRL headquarters, diagnose the situation and get the AC unit restarted. The servers hosting the LoTW web servers (Production and Test) had shut down. From examining the Uptime Robot alerts we received for LoTW it appears that the servers went off-line around 1:34 PM and returned to service at 4:43 PM.

IT has reconfigured temperature alarms to provide earlier notice of impending thermal problems. In normal (non-pandemic) times, this should ensure that issues are noticed and responded to before affecting operations.
73,   Greg, K0GW

CCARC Activities

By Jeff – KB3SPH

2 October 2020 – Monthly CCARC Meeting at 7:00 PM via ZOOM teleconference.

Join the 2 October 2020 Zoom Meeting via desktop/laptop/smartphone: https://us02web.zoom.us/j/81684790299?pwd=NjhubWw3aHlNeTMxQnlySzFsRUJzZz09

Dial in via landline/cell phone and follow voice prompts:

301-715-8592

Meeting ID: 816 8479 0299
Passcode: 972872

Agenda: Presentation - "Low Band Pass Filter Demonstration Utilizing a Spectrum Analyzer" by Charles – AA3WS

6 November 2020 – Monthly CCARC Meeting at 7:00 PM.

Get Well Soon

Extending get well wishes to Art AA3RT (author of Wireless on the Web) -he is in the hospital. Hope you are back to radio (instead of medical) scanners very quickly!

CWops Mini-CWT Test	1st		RTTYOPS Weeksprint	13th
NRAU 10m Activity	1st		NAQCC CW Sprint	14th
RTTYOPS Weeksprint	1 to 3		Phone Fray	14th
SARL 80m QSO Party	1 to 3		CWops Mini-CWT Test	14th
SKCC Sprint Europe	1 to 3		VHF-UHF FT8 Activity	14th
NCCC Sprint	2nd		RSGB 80m Autumn Series, Data	14th
German Telegraphy	3rd		AGCW Semi-Automatic Key Evening	14th
FISTS Fall Slow Speed Sprint	3rd		CWops Mini-CWT Test	14th
Portable Operations Challenge	4th		RTTYOPS Weeksprint	15th
TRC DX	4th		NCCC Sprint	16th
Oceania DX , Phone	4th		Feld Hell Sprint	17th
Russian WW Digital	4th		Argentina National 7 MHz	17th
IARU Region 1 UHF/Microwaves	4th		Araucaria World Wide VHF	17 to 18
YLRL DX/NA YL Anniversary	4th		JARTS WW RTTY	17 to 18
SKCC QSO Party	4th		10-10 Int. Fall , CW	17 to 18
California QSO Party	4th		New York QSO Party	17 to 18
International HELL-	4th		Stew Perry Topband Challenge	17 to 18
RSGB DX	4th		Worked All Germany	17 to 18
UBA ON , SSB	4th		Asia-Pacific Fall Sprint, CW	18th
Peanut Power QRP Sprint	4th		UBA ON , 2m	18th
K1USN Slow Speed Test	5th		RSGB RoLo CW	18th
RSGB 80m Autumn Series, CW	5th		Illinois QSO Party	18 to 19
Worldwide Sideband Activity	6th		Run for the Bacon QRP	18 to 19
ARS Spartan Sprint	6th		Classic Exchange, Phone	18 to 20
RTTYOPS Weeksprint	6th		K1USN Slow Speed Test	19th
Phone Fray	7th		Telephone Pioneers QSO Party	19th
CWops Mini-CWT Test	7th		RSGB FT4 Series	19th
VHF-UHF FT8 Activity	7th		ARRL School Club Roundup	19 to 23
432 MHz Fall Sprint	7th		Worldwide Sideband Activity	20th
CWops Mini-CWT Test	7th		RTTYOPS Weeksprint	20th
UKEICC 80m	7th		Phone Fray	21st
RTTYOPS Weeksprint	8th		CWops Mini-CWT Test	21st
NCCC RTTY Sprint	9th		RTTYOPS Weeksprint	22nd
NCCC Sprint	9th		NCCC Sprint	23rd
QRP ARCI Fall QSO Party	10th		Kentucky State Parks on the Air	24th
10-10 Int. 10-10 Day Sprint	10th		RTTYOPS Weekend Sprint	24th
Microwave Fall Sprint	10th		CQ Worldwide DX , SSB	24 to 25
ARRL EME	10 to 11		K1USN Slow Speed Test	26th
Makrothen RTTY	10 to 11		QCX Challenge	26th
Nevada QSO Party	10 to 11		Worldwide Sideband Activity	27th
Oceania DX , CW	10 to 11		QCX Challenge	27th
FISTS Fall Unlimited Sprint	10 to 11		RTTYOPS Weeksprint	27th
Scandinavian Activity , SSB	10 to 11		SKCC Sprint	28th
SKCC Weekend Sprintathon	10 to 11		Phone Fray	28th
Arizona QSO Party	10 to 11		UKEICC 80m	28th
Cosack's Honor VHF/UHF	10 to 11		CWops Mini-CWT Test	28 to 29
Pennsylvania QSO Party	10 to 11		RTTYOPS Weeksprint	29th
South Dakota QSO Party	10 to 11		RSGB 80m Autumn Series, SSB	29th
PODXS 070 Club 160m Great Pumpkin Sprint	10 to 11		NCCC Sprint	30th
UBA ON	11th		Zombie Shuffle	30th
K1USN Slow Speed Test	12th		RTTYOPS Weekend Sprint	31st
4 States QRP Group Second Sunday Sprint	12th		UK/EI DX , SSB	31 to Nov 1
Worldwide Sideband Activity	13th		Russian WW MultiMode	31 to Nov 1

Contests in October

Spot Not

Across

1. Eight furlongs

5. Propagation predictor, with solar

9. Early ham technology

14. 7700 maker

15. Network, especially in I-land

16. Blender setting

17. Solar WX org.

18. Kit maker of the 1960s

19. Poem of lament

20. Propagation predictors, with 58 down

22. OX dir. from XE

24. Formerly known as

25. Chop (off)

26. Solar minimum result

28. Fed. fiscal agency

31. "Encore!"

33. 144 MHz

34. Phoned

36. Deteriorates

38. Post det. stage

42. Hams eagerly await it

45. 1970s sat.

46. Garbage barge

47. "I'm ___ your tricks!"

48. Checks in check ins

50. Calls from NJ or NY

52. What some amateurs are, professionally

53. The 2009 sun, mostly

57. W7 ARRL sect.

59. 440 MHz region, say

60. Prefix, opposite of 63 down

61. Early receiver maker

65. Wanderer

67. Generate RF sig.

69. Handle

70. Nonsensical

71. Tropospheric propagation path

72. Connectors with shells

73. FD abodes

74. Ckts. for CW

75. Put in stitches

Down

1. Subcompact

2. Desktop feature

3. PA front panel label

4. In-box contents

5. C6 city

6. KH6 rings

7. GMT replacer

8. Veracruz prefix

9. Indy place

10. YA cent
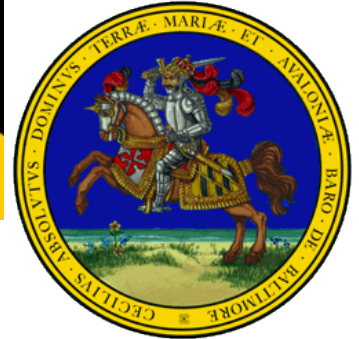
11. Hara, for example

12. Superhet alternative

13. Sent CW

21. It may follow a dot

23. ___ King Cole

26. Picks up, on the air

27. Fab

28. Shamu, for one

29. W0 Clinic

30. Locking connectors

32. Column crossers

35. Sparkle

37. KC4 WX

39. Code for code

40. Receiver rear panel label

41. Con cons

43. Rules out

44. 33 dBm

49. K7UGA, once: Abbr.

51. Ant. measurement

53. 56 down measurement

54. Second SS weekend

55. GD isle

56. See 53 down

58. Types of 20 across

61. Micro micro

62. Antenna measurement

63. Prefix, with directional

64. What crank-up sections do when cranked-down

66. Dip. or Inv-V, e.g.

68. Propagation condx indicator

Special Event Calls October

Call	Dates	Event	Call	Dates	Event
K8T	1 to 20	100th Anniversary Camp Tuscazoar	W0D	3 to 4	Lester Dent - Doc Savage Special Event
K8L	7 to 17	10-10 Day contest (October 10 - 10/10)	W4D	3 to 4	Little David Commemoration
K6D	7 to 12	13th Annual Disaster Preparedness Fair	N6M	21 to 28	MABUHAY DX CQWW DX CONTEST
K3K	2 to 16	2020 NATIONAL FERAL CATS	N4M	21 to 28	Marine Corps Marathon
N4I	3 to 4	2nd annaul Netherland Inn harvest celerbration	W5M	23 to 25	Mickey Mantle Day
W3R	16 to 20	30th Anniversary Cincinnati Reds 1990 World Series	K6M	23 to 25	Modoc County Expedition
W5B	2 to 11	Albuquerque International Balloon Fiesta	N3A	11 to 17	NAQCC 16th Anniversary Celebration
N6D	2 to 20	Anniversary of Mission Dolores dedication, San Francisco 1776	N1Y	16 to 18	Narragansett Council BSA JOTA
K7A, K7L, K7T, W7A, N7G	10 to 11	Arizona QSO Party	K6B	1 to 6	National Teacher's Day & CA QSO Party
K6E,K6F, K6G, KEK, K6P, K6T, N6R,N6T, N6U, W6E, W6O, W6T, W6W	1 to 4	California QSO Party	N7V	8 to 12	Nevada QSO Party
N6N	3 to 16	Coyote Creek Cycling Classic	K1T	20 to 16	NH/MA POTA Expedition
K7G, K8P, N0G,N4G,W3G	9 to 19	Earth Science Week	W2M, W2E	16 to 19	NY QSO Party
W5E, W5I,W5K,	10 to 18	Eisenhower Birthday Special Event	K3K, N3A	17 to 18	Pa QSO Party
N0F, N1F, N2F, N3F,N4F, N5F,N6F, N7F, N8F, N9F,	4 to 10	Fire Prevention Week Special Event	K5S	4 to 9	Sukkos on The Air Texas
W0T	14 to 26	Flint Hills ARC Beaumont Special Event	W5T	1 to 14	Texas Gulf Hurricane Awraness Event
K9E	4 to 18	Fort Massac Encampment	K1D	24th	The Captain Kidd DX Hunt
N4C	2 to 5	Foxtrot Mike Hotel Portable Operation Challenge	W3T	8 to 16	Towamencin Encampment
W1F	9 to 10	Friendly Bunch At Stone Mountain	N4U	18 to 20	USCGA 80th Anniversary
K5G, K6G, N2G, N3G, N9G,	10 to 18	Get Your Park On	K3G	5 to 18	West Virginia SOTA Pilgrimage
N9C, N9I	14 to 19	Illinois QSO party	W1M	17th	WHOA Weekend/SCOTA
K4B, K4C,K8S, K9J, K9K, N4C, N4S, N4W, N8J, W0W, W1S, W4G, W4S, W5S, W7T, W9R, W9S	16 to 18	Jamboree on the Air	K6C, W6C	1 to 6	WQ6X CQP Operation from Contra Costa County

Special Event highlight

EXPATRIATE MARYLANDERS RADIO CLUB

Design of the Maryland Flag
from the *Maryland Manual:*

"Maryland's flag bears the arms of the Calvert and Crossland families. Calvert was the family name of the Lords Baltimore who founded Maryland, and their colors of gold and black appear in the first and fourth quarters of the flag. Crossland was the family of the mother of George Calvert, first Lord Baltimore. The red and white Crossland colors, with a cross bottony, appear in the second and third quarters. This flag first was flown October 11, 1880, in Baltimore at a parade marking the 150th anniversary of the founding of Baltimore. It also was flown October 25, 1888, at Gettysburg Battlefield for ceremonies dedicating monuments to Maryland regiments of the Army of the Potomac. Officially, it was adopted as the State flag in 1904 (Chapter 48, Acts of 1904, effective March 9, 1904)."

Legal Description of the Maryland Flag from the *Annotated Code of Maryland, Section 7-202:*

(a) The State flag is divided into quarters. (b) The first and fourth quarters are a paly of six pieces, or (gold) and sable (black), and a bend dexter (right diagonal band) counterchanged so that they consist of six alternating gold and black vertical bars with a diagonal band on which the colors are reversed. (c) The second and third quarters are quartered argent (white) and gules (red), a cross bottony counterchanged so that they consist of a quartered field of white and red, charged with a Greek cross that has arms terminating in trefoils and opposite coloring so that red is on the white quarters and white is on the red quarters, as represented on the escutcheon of the State seal.

History of the Maryland Flag from the Maryland Secretary of State Web Page

"Despite the antiquity of its design, the Maryland flag is of post-Civil War origin. Throughout the colonial period, only the yellow-and-black Calvert family colors are mentioned in descriptions of the Maryland flag. After independence, the use of the Calvert family colors was discontinued. Various banners were used to represent the state, although none was adopted officially as a state flag. By the Civil War, the most common Maryland flag design probably consisted of the great seal of the state on a blue

background. These blue banners were flown at least until the late 1890s.

"The Calvert family coat of arms was reintroduced in Maryland in an 1854 law that called for a new great seal based on the Calvert design. The seal created pursuant to this act contained several inaccuracies, and in 1876 the General Assembly provided for a new great seal that conformed closely to the Calvert original.

"Reintroduction of the Calvert coat of arms on the great seal of the state was followed by a reappearance at public events of banners in the yellow-and-black Calvert family colors. Called the "Maryland colors" or "Baltimore colors," these yellow-and-black banners lacked official sanction of the General Assembly, but appear to have quickly become popular with the public as a unique and readily identifiable symbol of Maryland and its long history.

"The red-and-white Crossland arms gained popularity in quite a different way. Probably because the yellow-and-black "Maryland colors" were popularly identified with a state which, reluctantly or not, remained in the Union, Marylanders who sympathized with the South adopted the red-and-white of the Crossland arms as their colors. Following Lincoln's election in 1861, red and white "secession colors" appeared on everything from yarn stockings and cravats to children's clothing. People displaying these red-and-white symbols of resistance to the Union and to Lincoln's policies were vigorously prosecuted by Federal authorities.

"During the war, Maryland-born Confederate soldiers used both the red-and-white colors and the cross bottony design from the Crossland quadrants of the Calvert coat of arms as a unique way of identifying their place of birth. Pins in the cross bottony shape were worn on uniforms, and the headquarters flag of the Maryland-born Confederate general Bradley T. Johnson was a red cross bottony on a white field.

"By the end of the Civil War, therefore, both the yellow-and-black Calvert arms and the red-and-white colors and bottony cross design of the Crossland arms were clearly identified with Maryland, although they represented opposing sides in the conflict. As officers and soldiers returned home after the war to resume their peacetime occupations, the greatest challenge facing the country was reconciliation. Nowhere was the problem more serious than in deeply divided Maryland, where veterans who had fought under the red-and-white 'secession colors' had to be reintegrated into a state that had remained true to the Union.

"As the slow process of reconciliation took place in post-Civil War Maryland, a new symbol emerged. A flag incorporating alternating quadrants of the Calvert and Crossland colors began appearing at public events. While the design derived directly from the seventeenth-century Calvert family coat of arms, for Marylanders of the 1880s the new banner must have conveyed a powerful message. The passage of time had gradually diminished the passions of former Rebels and Yankees, permitting them to work together once again. Now the colors they had fought under had come together as well, symbolically representing through this new flag the reunion of all the state's citizens.

"Neither the designer nor the date of origin of this new Maryland flag is certain, but a banner in this form was known at least by October 1880. Flags incorporating four quadrants alternating between the yellow-and-black Calvert arms and the red-and-white Crossland arms appear in published sketches by Frank B. Mayer depicting the huge 150th birthday parade held in Baltimore that month. Eight years later, in October 1888, a large flag with the alternating Calvert and Crossland colors was carried by Maryland National Guard troops escorting Governor Elihu E. Jackson at the dedication ceremonies for the Maryland monument at the Gettysburg Battlefield. A year later, in October 1889, the Fifth Regiment, Maryland Na-

tional Guard, adopted a flag in this form as its regimental color. The Fifth Regiment thereby became the first organization to adopt officially what is today the Maryland flag.

"The adoption of this new flag by the Fifth Regiment helped popularize the design. The Fifth was the largest component of Maryland's military after 1870, and it played a conspicuous part in major public events both in and out of the state. Organized in May 1867, the Fifth Regiment was the successor organization to the Old Maryland Guard, a military unit formed in Baltimore in 1859 that dissolved when most of its officers and men went south in 1861 to join the Confederate Army.

"True to its heritage, the original Fifth Regiment consisted primarily of Maryland-born former Confederate officers and soldiers. The new regimental color adopted in 1889, combining the traditional yellow-and-black "Maryland colors" with the red-and-white "secession colors" in the form of a bottony cross, must have seemed especially appropriate to members of the Fifth. The colors symbolically represented what had happened to the Fifth Regiment itself in the quarter century since the Civil War. Originally denounced as a "Rebel Brigade," the Fifth had by the 1870s become Maryland's premier military organization, attracting Union veterans as well as former Confederates. From its inception, the Fifth Regiment had demonstrated through its prominent participation in public events and with its summer encampments in the north that former Confederates could be good soldiers and loyal citizens of the state and the nation.

"The Fifth Regiment's new regimental color was not the only example of former Confederates perpetuating and thereby popularizing the use of the red-and-white Crossland colors and the cross bottony design. The monument on Culp's Hill at the Gettysburg Battlefield commemorating the Second Maryland Infantry, CSA, carries a cross bottony on each face, and the Maryland Line Confederate Soldiers' Home, established in Pikesville in 1888, featured a large cross bottony on service badges and on invitations to events sponsored. Beginning a custom that would later be officially recognized by law, the Fifth Regiment by 1905 had replaced the silver eagle on the flagstaff bearing its regimental color with a cross bottony.

"In 1904 the General Assembly affirmed the popular support shown for a banner composed of alternating Calvert and Crossland quadrants by declaring it the State flag. In 1945, a gold cross bottony was made the official ornament for a flagstaff carrying the Maryland flag.

"The Maryland flag, flown on a staff properly ornamented with a gold cross bottony, is therefore much more than a symbol of state sovereignty. The flag excels as a state banner because it commemorates the vision of the founders while it reminds us of the struggle to preserve the Union. It is a unique symbol of challenges met and loyalties restored, a flag of unity and reconciliation for all the state's citizens."

MATTHEW G VUREK **Expatriate Marylanders Radio Club** PO BOX 617 Orinda, CA 94563

10/11/2020 | 140th Anniversary of the Current Maryland Flag
Oct 11-Oct 12, 1800Z-0300Z, N3APS, Orinda, CA. Expatriate Marylanders Radio Club. 14.320 7.275 28.425 146.550. QSL. M.G. Vurek, P.O. Box 617, Orinda, CA 94563. www.qrz.com/db/n3aps

Hello CCARC,

As noted at the past Zoom meeting, I would like to propose some HF Digital playing/testing by holding a 'net' every two weeks on a Wednesday night on the First and Third week of each month.

The purpose would be to pick a 'mode' of Digital operations. My current vision is that I would then transmit for at least 5 minutes on the given mode for the night. I'll probably have some clips from different QST articles that would fill up 5 minutes of time. Upon completion, I would then put out a call for anyone who wanted to check into the 'net' for a QSO.

If you only want to receive the signal, then nothing more is needed other than a way to get the audio out of your radio and into the Sound Card on your computer. If you wish to transmit, then you'll need some type of interface. The current most common interface is the SignaLink, but there are on-line directions for anyone who wishes to DIY one.

Software: I have my favorites that I enjoy using but here is a list of some of the most common programs out there:

RTTY Only: MMTTY
SSTV Only: MMSSTV

Multifunction programs:
FLDIGI
MultiPSK
HRD DM

In some testing/playing with Jeff (KB3SPH), we were using two different program and I noted that while the 'mode' was the same, the 'sub-modes' did not have 100% matching, especially on things like Oliva.

Also, the VOA is doing this on some of their weekly transmissions. They start with voice and then move to a Digital mode to send a picture and related text.

If interested, send me a note and I'll work up a schedule..

73 Bob KB3KOW

Charles County Amateur Radio Club Meeting Minutes
Sep 4, 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:

Bill Luyster W8BL
Patrick Hinman KB3UYZ
Michelle Sack N3YRZ

Visitors:

John Kohansby KC3PMJ

Meeting opened 1900 Hours.

President Bob Curran NW3M opened the Zoom Meeting by welcoming the members and visitor John Kohansby KC3PMJ. John advised he was a new ham interested in make Windom Antennas and Baluns. John was also curious on how to get antenna ropes in trees. Subsequently, Bob turned the meeting over to Michelle who gave a great presentation on "Net Logger" software.

New Business

Treasurer:

Pamela Humbert KB3SWS, gave the Treasurer's Report. The August Treasurer Report was approved.

Activities Manager:

Jeff KB3SPH reported on the following upcoming activities:

2 October 2020 Meeting- Test Sessions prior to the meeting is canceled. Jeff advised Test Sessions are available at the Fort Washington and Anne Arundel Radio Clubs.

Times and dates of testing are provided on the club's website. The location of the meeting will be announced prior to October 2, meeting.

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 August Meeting are published in the Monthly New Letter. The August Minutes were approved.

Old Business

None.

Member's Comments:

Bob Davison asked if any of the members to contact him if the member was using or member was interested in Yaesu's Fusion Digital function. Bob also reported the Boy Scouts "Jamboree on the Air" was a GO. Finally, Bob asked for input on having Biweekly Club Digital Nets.

Bob Curran noted to John when he got ready to put antennas in the trees, the Club would come over and have an Antenna Party to show him how putting antennas into the trees is done.

Closing:

A motion was made and seconded to close the meeting. The motion passed at 2113 Hours.

Charles Hallock AA3WS

Secretary

The not yet named area zoom get together for radio operators

The Saint Mary's County Amateur Radio Association is hosting a monthly, informal ragchew session via Zoom for hams in the surrounding counties. The idea is to just get together to chat about what's going on, activities, etc. 2nd Thursday of every month 7:30 PM Eastern Time

 AGENDA:

- Everyone is invited from anywhere in the MDC area (southern Maryland, Northern Neck, eastern shore of Maryland, etc.)

 - Open chat – who is doing what, club news from all areas, how can we work together better to keep ham radio a growing, viable hobby, sharing of news about upcoming ham events, meet new people!

 - Please keep all discussions related to ham radio activities!

 JOINING THE GROUP (there are 3 different ways to join in on the meeting):

1 – Click on this QUICK LINK:

 https://us02web.zoom.us/j/8673965998?
pwd=Q2lUL05PTVB3RnEvUkZPNmlKUFJ3QT09

 2 – Open up the ZOOM app on your computer or device and:

 Select 'Join Meeting' button and type in the meeting ID and password:

Meeting ID: 867 396 5998 Meeting Password: 1460464

 3 – Use your regular telephone (no computer needed, voice only, no video):

 Dial 1-301-715-8592 (US) – Follow the voice prompts... enter the Meeting ID followed by the # (pound) symbol; then enter your participant ID (if applicable) followed by #; then enter the meeting password followed by #

 Contact information: Rob Hoyt, N2OMC – SMCARA President/ host rob-hoyt32@yahoo.com

Odd & ends

Are there others near you?

Tom W3TOM provided this cool search tool. Though my call is at a PO box, typing in the grid square...I found 2 in my subdivision!

Try it with your call and meet your ham neighbors!

https://haminfo.tetranz.com/map/

Open for Comments

Comments are being accepted on the Notice of Proposed Rulemaking (NPRM) in MD Docket 20-270, which proposes application fees for radio amateurs. Comments may be filed using the FCC's Electronic Comment Filing System (ECFS), https://www.fcc.gov/ecfs/filings , and posting to MD Docket No. 20-270.

The NPRM can be found online in PDF format https://docs.fcc.gov/public/attachments/FCC-20-116A1.pdf

Youth news and events

JOTA occurs Oct 23-25. Covid cancelled many Scout events around the nation, so though they are not gathering in big groups there may still be some on the air.

Advanced Technical Information Online

By Bob, NW3M

If you're new to doing more advanced electronic design or repair you may have run into a situation similar to this. You've designed that perfect digital alarm clock that you always wanted. Not only does it tell you the time of day in dual time zones, incorporates WiFi to control house lights and the Smart coffee pot but it also incorporates a relay that applies power to your 400 watt stereo system as your wake up alarm. (Some of us are heavy sleepers, I guess.)

You plug it in, set the time, and set the alarm to go off in two minutes so you can marvel at your handiwork. The magic moment comes, the relay snaps closed, the stereo comes to life like a screaming monster, and the clock mysteriously advances 13 minutes. You reset everything and try again, this time the clock advances 18 minutes. On the third try the clock advances 7 minutes.

What could possibly be going on? You were very careful in your design. You made sure the wires handling the switched AC were in a separate shielded enclosure away from the clock oscillator. You put bypass capacitors on the V+ leads of all the digital chips. And still it glitches whenever the relay closes.

Thinking it must be the arc in the contacts when the relay closes you unplug the stereo. There is now no load on the relay contacts to create a spark. And still it happens, the time display suddenly advances some random number of minutes. You add more capacitance to the power supply filtering and voltage regulator for the digital portion of the circuit. You watch with an oscilloscope for that telltale spike on the power supply lead but it never appears. Even with the back EMF clamping diode in place directly across the relay coil windings and an added shunt capacitor you're still getting that glitch.

You have fallen victim to a grounding issue in your PCB design. For the sake of a shortcut, maybe you took a thin ground foil and daisy chained it to all of the counter chips and for the sake of convenience you tacked the relay coil ground side connection at the end of the daisy chain. Your spike isn't happening on the regulated power supply feed, it is happening in the ground traces.

We've all been there. It is frustrating as can be to track down. I've seen it in circuits I've built and I've seen it in commercially made equipment.

The tutorial for this month comes from the folks at Maxim Integrated, a maker of integrated circuits. It explains the pitfalls of mixed signal grounding and offers design tips and solutions for avoiding them.

https://pdfserv.maximintegrated.com/en/an/TUT5450.pdf

ANSWERS

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

Answers to practice questions
1D 2C 3A 4B

H🥚ms in Action

Ham Radio Wireless Network users report fire

A call to the Department of Natural Resources Sep 8 from Amateur radio users of HamWAN in Puget Sound region of Washington raised the 1st alert of a fire along Hwy 410. It allowed the DNR to send a team to keep it small.

HamWAN (organization developing best practices for high-speed amateur radio data networks) networks have been used for as low-latency repeater linking (including DMR), real-time video feeds, APRS internet gateways (I-gates), providing redundant internet access to emergency operations centers, and more. HamWAN has remotely controllable cameras at multiple link sites such as the one used for the wildfire report.

Reported by Nigel, K7NVH ARRL Letter for September 10, 2020

A frame from video via a HamWAN camera of an air tanker dropping water on the fire.

(https://www.youtube.com/watch?v=MJ1X4VvRFWY)

And in Maryland-DC

September 3, ARES team members using EchoLink *WASH_DC* node & linked repeaters; reported severe weather, tornados in the wake of Isiais.   For more than 3 hours, nets reported on wind damage, power outages, flooding, and the impact to traffic across six Maryland counties.

W3ICF/R near Frederick, Maryland, and KA2JAI/R in Anne Arundel County," were some of those reporting over more than 3 hours, nets reported on wind damage, power outages, flooding, and the impact to traffic across six Maryland counties. The storms traveled more than 80 miles across Maryland; Maryland Gov. Larry Hogan has requested a major disaster declaration from the federal government to help communities in the three counties hit worst Calvert, Dorchester and St. Mary's counties and state agencies for repairs to public infrastructure. Maryland Emergency Management Agency Director Russ Strickland said Isaias spawned 10 tornadoes in Maryland, and also caused extensive flood and wind damage.

 Jim Montgomery, WB3KAS, Section Emergency Coordinator, notified ARES teams of approaching storms. "The timeliness, wide-area coverage, interoperability with selected VHF and UHF repeaters, coupled with numerous hams in affected areas, provided the best ground-truth," Marty Pittinger, KB3MXM ARRL Maryland-DC Section Manager said.

https://wtop.com/maryland/2020/09/hogan-asks-for-federal-disaster-declaration-for-3-counties/

Break a Pileup

A Guide for Beginners **The key to breaking a pileup is listening and learning - *before you call*.**

https://www.hk3c.ca/index.php/how-to-break-a-pileup

WANT ADS, FOR SALE, &

PUBLIC SERVICE ANNOUNCEMENTS:

Looking for the person who got the Kenwood TR-7600 from the Palmer estate sale. I have the operating and service manuals. Contact Michelle N3YRZ at msack@verizon.net or 301 9328133 to make arrangements for pickup or delivery. If no one steps up this month, going to put it on Ebay
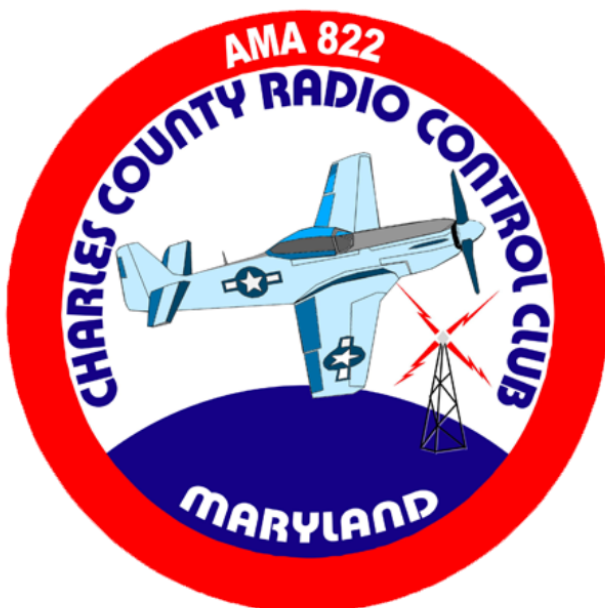
K3SMD

Charles County Amateur Radio Club

Service Club

We're on the web

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

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