

The Hertzian Herald



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Off The Kuf:

By Mike – N8KUF



The month of June is well underway, and with it arguably the busiest month of the year for amateur radio activities here in the Monroe County area. Thanks go out to those who have been able to participate in activities thus far – ARPSC, RRRRA and MCRCA inclusive. Your efforts contribute very much to the success and enjoyment of Amateur Radio in the SE Michigan area, and you must pat yourselves on the back (if you can't reach your own back anymore ... allow me to pat it for you) for your participation.

If you missed the May meeting, you missed a well-done video extolling the public service efforts of amateur radio operations ... once again presenting Ham Radio as the only Fail-Safe communications system in the world.

We had a successful and very enjoyable active attenuator construction session on Saturday June 8th. I was very pleased to see the comradery and participation and, when all was done, we had 6 more operational attenuators. Congrats Terry N8NYP, Rodney KD8ZNZ, Dalton KE8DDM, Jeff K9JP, John N8RWI, and Ken N8VGE for your successful builds. Scott W8SMB was with us in spirit but had other commitments. I hope to see you all at the next fox hunt. We do have a few kits available at \$12 for anyone interested (first come, first served).

I need now to solicit your support for the next event on the calendar. The annual **Monroe Hamfest** occurs on Father's Day each year at the Monroe County Fairgrounds. This fest is one of, if not THE grand event for ham radio swappers and shoppers in Southeastern Michigan, Northwest Ohio, and much broader surrounding areas. This event provides a healthy percentage of your annual comradery dosage, along with the majority of funding necessary to support the various activities / programs sponsored by the MCRCA through the rest of the year. The fest requires significant effort to ensure that it is successful. I need your support on Saturday Morning for setup, on Sunday morning bright and early for coordination and ticket sales, and immediately following the event (12:00ish) for teardown / cleanup. A few hours or more of your time will go a long way. The more support we get, the less is the burden on a few individuals. Again, this is **VERY IMPORTANT** to the MCRCA, and **I NEED YOUR HELP**.

Next up (after the 6/20 MCRCA Mtg) is Field Day. This national affair is an annual event that is sponsored by the American Radio Relay League (ARRL).

(continued page 3)

Club Officers

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MCRCA Minutes:

Meeting called to order at 7:30 pm, by Mike Karmol N8KUF.

Pledge of Allegiance

Introductions: No new members, upgrades and 2 guests.

PROGRAM: Video

BREAK

DOOR PRIZE DRAWING: Scott's daughter Abby

50/50: None

MINUTES: Motion by Tom KG8P, supported by Rodney KD8ZNZ, to approve as written in the Herald. Approved.

TREASURER REPORT: Motion by Rodney KD8ZNZ, supported by Tom KG8P, to approve the treasurer's report as passed out to the membership. Approved.

HAMFEST: Fred KA8EBI – This is the last meeting before the hamfest. Everything is moving along smoothly and we are all set to go.

DX REPORT: Tom KG8P, DX is always happening, there are 344 entities setup and changing constantly. CQWWPX contest, may 25 & 26. Allende Island near Finland later this month. Mt Athos Greece Op SK. Tom worked West Kiribati with FT8 and 100 watts.

FUTURE PROGRAMS: June 6 ARPSC meeting – Digital modes,
June 8 – Attenuator build at Red Cross.
June 20 MCRCA mtg. Field Day Video,
July 13 – 2nd foxhunt.
July 18 MCRCA mtg - 12 VDC Distribution PPT,
August 15 MCRCA mtg – Ask Dave – grounding methods

FOXHUNT: July 13th

TESTING: Next session - Sat. June 15, 2019.

MENTOR MOMENT: Rodney KD8ZNZ, requested antenna suggestions for 2m/440.

ARPSC: A combined foxhunt and Spring S.E.T. were held May 11th.

ARRL: Dale was in Dayton

RRRA: Mike N8KUF reported that the finishing touches are being done on the Ottawa Lake remote site. There is now an internet tie working via hockey puck provided by the County.

OLD BUSINESS: The club has purchased 12 attenuator kits and boxes for the building session coming up June 8th. They will be for sale for \$12.00 for both a box and kit.

NEW BUSINESS: None

ANOUNCEMENTS: Attenuator build June 8th

ADJOURNED: 7:58 pm

ATTENDANCE: 11

K8EBI Fred	KA8POH Neil	KB8KQC Brenda
KD8ZNZ Rodney	W8SMB Scott	KG8P Tom
N8KUF Mike	N8NYP Terry	KE8MCS Brian
Isaac Burkey	Abby Burkey	

Committees

Classes

Club Station

Wes Busdiecker KC8SKP

DX Net

Field Day

Jeff Breitner KA8NCR

Finance

Paul Trouten W8PI (chair)
Fred VanDaele KA8EBI
Dale Williams WA8EFK

HamFest

Fred VanDaele KA8EBI

Hertzian Herald

Fred VanDaele KA8EBI

Historian

Paul W8PI

Public Relations

Jeff Breitner KA8NCR

Scholarship

Fred VanDaele KA8EBI

School Liaison

open

Programs

open

Membership

Terry Kolton N8NYP
n8nyp@arrl.net

Planning

open

Property Custodian

open

The event is in the form of a contest where organizations (and individuals) around the country (US, territories, and Canada) operate for 24 hours straight, with the goal of establishing communications typically from a non-permanent location (as in a disaster situation) and contacting as many others as possible during the period. Points are awarded for each valid contact. Only one contact, per call, per band, per mode is allowed. Computer based logging programs are used to record contacts, report any duplicates, and track points accumulated. Here in Monroe County, as with many other locations, antennas are strung up in trees, operating positions are assembled in tents, generators are connected and fired up, and attempts are made at establishing tolerable relations with area insects and the occasional frisbee golfer. We have placed very high in the standings in recent years, and with everyone's commitment we can be serious contenders for top place in the region.

Setup begins at 0900 on Saturday June 22. Anyone and everyone who is interested in helping with the effort while learning some tips and tricks on getting antennas into the trees and setting up tents / generators while managing logistics of a semi cohesive field operation is plenty welcome to attend. When the operations begin at 2:00 pm local time Saturday, the action does not stop until 2:00 pm Sunday at which time help with de-constructing (note: NOT destructing) the site and packing up the gear will be greatly appreciated.

This year's operation will include a GOTA (Get on the Air) station where even non licensed persons can get on the radio and make contacts under the supervision of a licensed control operator. A family potluck is conducted Saturday at 6:00 for the purpose of culinary delight, social interaction, and introduction of your family and friends to your newly established insect buddies. Your club provides soft drinks, burgers & dogs, condiments, etc. with the main course prepared by one of the area's premier field day chefs. You are asked to bring a dish to share and please remember – all family members and interested friends are welcomed. See further details elsewhere in this newsletter, or on the MCRCA.org website. I hope to see you at Vienna Park on the 4th full weekend in June for this significant event.

The upcoming (June) meeting will include a video demonstrating Field Day setup and operations along with the typical club business. The originally scheduled program on 12 volt distribution systems has been rescheduled to the July meeting.

Allow me to remind you of the rules for meeting attendance. ...

- 1) all tomatoes MUST be checked at the door, and
- 2) all who are willing to have a good time are welcome, and
- 3) all are encouraged to bring a friend

I'll see you, and your friend, at the meeting,

Mike – N8KUF

President - MCRCA



Monroe Hamfest 2019

Once again, it's time for our annual Monroe Hamfest. As in years past it will again be held at the Monroe County Fairgrounds at M-50 and Raisinville Road, on Father's Day, June 16, 2019.

Set up will begin on Saturday morning June 15th at 9 AM. The fair people are setting up and taking down the tables again this year which will greatly reduce the heavy labor of years past. We still need to label all of the tables with numbers and vendor names, align them properly and string up 4 electrical cords so the vendors in the center can have electricity. We will need to spread chairs out according to the diagram so that each vendor that wants one will get a chair or two. Dale WA8EFK, will also need help running wires and installing the PA system throughout the trunk sales area and inside the building.

The fair people usually put the handicap parking signs out in the parking lot and since we allow them to park inside we need to cover 6 approx. 10 signs in the parking area. There are other miscellaneous jobs such as putting up banners and flags, and putting up signs. This usually is all accomplished by lunch time if we get enough help.

Sunday morning the early workers will enter through the Raisinville Road gate. It will be opened by 6:15 AM so that we can get in place in time to start letting trunk sales people in at 6:30 AM. Building captain, trunk sale guides and ticket sellers need to be in place by 6:30 AM. We will use **446.600 simplex** during the Hamfest but please don't announce this on the 72 repeater as the trunk sale people will harass us to no end.

After the Hamfest, about 1 PM we need people to go around and police up the area. We must clean up the fairgrounds and the building or they will charge us if they have to do it. If we get lots of help this won't take long.

We still need some more helpers for the Hamfest. We need 2 people to help Jeff KA8NCR, direct trunk sale people as they enter the grounds and show them where to park so they don't end up blocking the walk and drive ways through the sales area. Please contact Fred KA8EBI if you can help out.

We need about 8 people to sign up for ticket sales Sunday Morning hourly from 6:30 to Noon, so people won't have to spend all day out standing in the sun. If you can help out selling tickets, please contact Rodney Haddix KD8ZNZ as soon as possible.

If we get enough help and good weather we should have a pretty nice Hamfest again this year. We have all our tables reserved as of June 8th.

Fred K8EBI, Hamfest Chairman for 24 years.

Field Day 2019

June 22 and 23 will be Field Day weekend this year. We will once again be holding our FD at Vienna Park down in Temperance Michigan. We will use shelters B and C in the front of the park as we did last year.

Set up will begin about 9 AM on Saturday with the contest beginning at 2 PM. We will have a phone station, a CW station and a GOTA station for new hams and those who haven't been active lately in radio use. Come on out and help set up several antennas and tents on Saturday morning. Everyone is welcome to come out and operate a radio.

At about 6 PM on Saturday we usually have a pot luck dinner, with the club furnishing hamburgers, hot dogs, sausages, buns and condiments. The club will also furnish coffee and a variety of soft drinks, water and the paper ware and plastic ware. We ask that you please bring a dish to pass, a dessert or bag of chips.

Hope to see everyone out there this year.

AMSAT Field Day on the Satellites

The weekend of June 22-23, 2019 is Field Day! Each year the American Radio Relay League (ARRL) sponsors Field Day.

The Radio Amateur Satellite Corporation (AMSAT) promotes our own version of Field Day focused on operation via the amateur satellites, held concurrently with the ARRL event.

The **AMSAT Field Day 2019** event is open to all Amateur Radio operators. Amateurs are to use the exchange as specified in ARRL rules for Field Day. The AMSAT competition is to encourage the use of all amateur satellites, both analog and digital.

The congestion on FM LEO satellites is always so intense that we must continue to limit their use to one-QSO-per-FM-satellite. This includes the International Space Station. You will be allowed one QSO if the ISS is operating Voice.

Note that no points will be credited for any contacts beyond the ONE allowed via each single-channel FM satellite. Operators are encouraged NOT to make any extra contacts via the FM satellites.

Information for the operational satellites can be found in the tables posted on-line on the AMSAT web:

+ FM Satellite Frequencies

<https://www.amsat.org/fm-satellite-frequency-summary/>

+ Linear satellite Frequencies

<https://www.amsat.org/linear-satellite-frequency-summary/>

Up-to-date satellite status reports are posted by users at:

<https://www.amsat.org/status/>

AO-92 may be in L/v for the first part of the event, depending on command station availability. Keep an eye on @AMSAT on Twitter for expected L/v mode change times.

An article by Sean Kutzko, KX9X, "Get on the Satellites for ARRL Field Day", published in the June 2018 issue of QST is reprinted with the ARRL's permission can be accessed at:

<https://www.amsat.org/get-on-the-satellites-for-field-day>

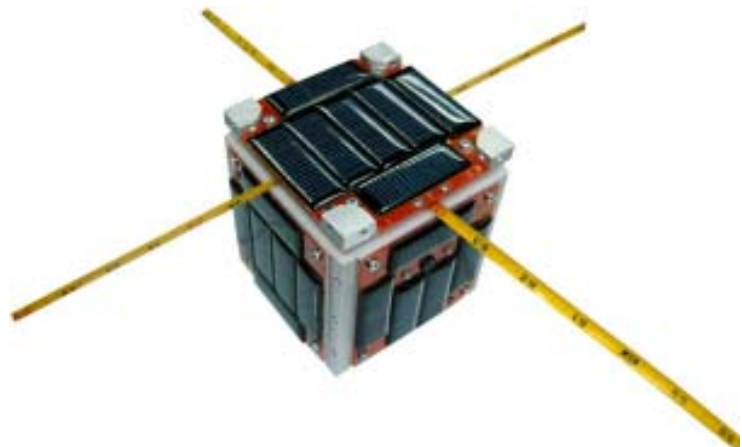
The full set of rules (including downloadable documents) are posted at: <https://www.amsat.org/field-day/>

Bruce Paige, KK5DO

AMSAT Director Contests and Awards

AMSAT website

<http://www.amsat.org>



This article was originally published on the popular website eHamnet.com. You can read the original, including comments that have been posted about it, at: <https://www.eham.net/articles/42673>.

THE ATTRACTION OF CW BY HOWARD, WB2UZE

What's the attraction in today's high-tech world and how does one learn it?

Before I can answer the question why CW would be of interest to any ham in today's high-tech world, let's spend some time first on how it all got started back in the day of the telegraph.

The telegraph was developed in the 1830s-1840s by Samuel Morse (1791-1872) and other inventors. It was a revolutionary long-distance communication done by transmitting electrical signals over wires between stations. Morse invented a code (Morse Code) that assigned a set of dots and dashes to each letter of the English alphabet, which gave an understandable format to the electrical signals.

The first telegraph transmission in 1844 was between Washington DC and Baltimore and by 1866 an oceanic line had linked the USA and Europe. By the end of the 19th century telegraph communication became the backbone of our country. Yet, with the invention of the telephone, telegraph lines became of less importance in the early part of the 20th century. However, Morse Code (CW or continuous wave) continued to be used with newly developed radio transmitters of that era. Even with the advent of AM transmission and later SSB, CW was the preferred mode for ship to shore, commercial and military applications through the 1950s due to its effectiveness to get through in poor atmospheric conditions and with compromised equipment. With the coming of microwave, fax and satellites, CW use waned but maintained its major use amongst the amateur radio community.

So, is there value in CW today or is it a lost art of the past? Let's take a look back to what it was like when I first got my license in 1965 when CW was still required by the FCC. The FCC required all entry level Novices to be able to copy 5 words per minute. Back then there were no computers, INTERNET or software for learning CW so an aspiring Novice had to seek out a local ham to help with learning CW and theory. That local ham would also give the Novice exam and code test. There were no repeaters so most all hams were HF active and imparted these skills to their eager students. So, there was a direct connection between aspiring Novices and established HF operators. Seeing the experienced operators handling CW at high speeds was fascinating and motivating. There was also something very engaging about hearing CW over what we now call Boat Anchor radios. When one tuned one of those vintage radio and saw the glow of tubes, it felt like real solid equipment which we developed admiration and respect for. For some older hams today, the need to own those very rigs is due to this same connection made years ago.

Once we became Novices, we were not allowed to have VFO privileges and we worked off crystals. This meant we were stuck with a handful of individual frequencies. Our first receivers were not the best and we had to learn to receive CW with drifting receivers, poor sensitivity and no selectivity, the very things we take for granted in modern radios. These challenges made us excellent listeners and with that our speeds and CW skills increased as we progressed in the hobby. Back then to get a General license 13 words per minute was required and 20 for the Extra. As we became more proficient to reach these required speeds we developed head copy and CW became a language and not a series of dots and dashes. This is why many of the older hams are still preferring CW to voice and digital as they have developed a strong connection to the CW mode. To me there is nothing more satisfying in the ham radio hobby than having a CW QSO at a rapid speed with the challenge of copying in poor conditions, making few sending mistakes

So, getting back to the original purpose of this article: why should we be interested in CW today? I can list a host of reasons as follows:

- CW can get out better when the ham has a compromised antenna or low power.
- CW is ideal for QRP and portable operations. With weak signals it's harder to comprehend SSB than it is CW, so CW has a clear advantage.

(Continued next page)

- CW can be copied easier in today's poor atmospheric conditions
- Sometimes it's nice to operate your radio and not have to physically talk
- CW bands are less crowded than the SSB portions so there is less competition to make a contact
- The challenge to send CW well is always there. We call that 'having a good fist'
- CW is like a language and it's no doubt good exercise for one's cognitive health and hearing
- Knowing CW requires a good knowledge of operating techniques and protocols which will challenge the individual ham

So, one might ask, why CW if we have FT8 or other digital modes which can also get out in poor conditions. The digital modes leave most of the skill to a computer where CW is 100% the skill of the operator. To me it is truly more rewarding to make a CWQSO than sit idly by a computer and have it done for you, yet this is for any ham a personal choice.

Since CW was eliminated from the FCC license requirements in 1991, exams have been issued by Voluntary Examiners. In many cases after the exam, there is no longer any connection between the examiner and the new licensee. Most new hams think that our hobby all revolves around an HT and repeaters. Some have no idea of the thrill of operating on the HF bands or the attraction of CW.

Unfortunately, a lot of these new hams become inactive as they are not engaged. And with this deficit of active hams, when it comes to contests like Field Day and other special events, the demand for CW operators far exceeds what is available today.

So, what is there to do about this? I myself along with my friend Rich K2UPS decided to make a difference. In 2018 we established the Long Island CW Club (longislandcwclub.org). We teach CW via an internet video conference platform at beginner, intermediate and advanced levels. Students get actual QSO training also by video conference for honing technique and increasing skill. We have found the interest very high from the students and everyone is having a lot of fun. The retro-ness of CW is very appealing in today's fast-moving world and it's nice to make a connection to the bands with art and skill. It does take some dedication to learn CW and this commitment, like learning any language is not for everyone. So how does one learn CW?

Using a combination of what is called the Koch and Farnsworth method, we send the CW at 20 words per minute character speed but the spacing between letters is 5 words per minute. This will acclimate the student to higher speeds from the beginning and prevent the counting of the dots and dashes which will only slow the learning curve

We teach 11 classes of 1 hour per week at various levels. For the beginners, the student is needing to practice 15-20 minutes daily using G4FON CW software and 4 letters and or numbers are taught per week.

Sending skills are honed along the way

QSO skills are taught live as soon as a student can send their callsign and 599. We feel it's important to get students on the air quickly to help mitigate any fears and to see the value of their studies.

Like the learning of any language, I must admit there is a dropout rate as some students find out they don't have the time or commitment. However, for those who stick it out, they are rewarded by carrying on a skill and tradition that is most enjoyable and unique.

I hope after reading this article, hams that were considering to learn CW or had it on the 'back burner', will now spring in to action. See you on the lower part of the HF bands!





The American Radio Relay League's round-up of the forthcoming week's DX activity on the amateur radio bands

This week's bulletin was made possible with information provided by The Daily DX, The OPDX Bulletin, 425 DX News, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

GHANA, 9G. Matteo, IZ4YGS is QRV as 9G5GS until July 2. Activity is on 160 to 6 meters using SSB and FT8. QSL direct to home call.

AZORES, CU. Herman, HB9CRV is QRV as CU8FN from Flores Island, IOTA EU-089, until June 11. Activity is on the HF bands using FT8 and FT4. He plans to be QRV in the Portugal Day Contest operating CW while CU8AS will be active using SSB. QSL via operators' instructions.

IRELAND, EI. Members of the Galway Radio Experimenters Club will be QRV with special event call sign EI100ABC from June 11 to 16 during the Alcock and Brown Centenary Festival to commemorate the first non-stop transatlantic flight by John Alcock and Arthur Brown. QSL via EI2II.

FRANCE, F. Members of the Association des Radioamateurs des Cotes d'Armor will be QRV with special call sign TM1MOON on June 8 and 9 to commemorate the first spaceflight landing humans on the moon. QSL via F4EUG.

GUADELOUPE, FG. Reiner, DL2AAZ is QRV as FG/DL2AAZ from Deshaies, Basseterre Island until June 13. Activity is on 20 and 17 meters using SSB. QSL direct to home call.

ENGLAND, G. Members of the Peterborough and District Amateur Radio Club are QRV as GB0DDR until June 9 to commemorate the 75th anniversary of D-Day. QSL direct to M5ATR.

WALES, GW. Special event station GB2ORM is QRV until June 9 to commemorate the 75th anniversary of D-Day. QSL via bureau.

JAPAN, JA. Special event station 8N7JAPAN is QRV until October 31, 2020 to commemorate the Olympic Games 2020, the Paralympics 2020, and the World Cup Games 2019. QSL via bureau.

SVALBARD, JW. Erling, LB2PG is QRV as JW/LB2PG from Bear Island, IOTA EU-027, until November 2019 while working at the weather station. Activity is in his spare time on 80 to 20 meters using SSB. QSL to home call.

MARKET REEF, OJO. A large group of operators will be QRV as OJOAW from June 8 to 15. Activity will be mostly on the HF bands, with some VHF activity, using CW, SSB, FT8 and other digital modes. QSL via OH6AD.

CURACAO, PJ2. Paul, VA3ZC will be QRV as PJ2/VA3ZC from June 9 to 16. Activity will be holiday style on 40, 30 and 20 meters using CW and FT8. QSL to home call.

SAO TOME AND PRINCIPE, S9. Operators EA1ACP, EA1DVY, EA5BJ, EA5EL, EA7FTR, EB7DX and S92HP are QRV as S9A from Sao Tome, IOTA AF-023, until June 18. Activity is on the HF bands using CW, SSB and FT8. QSL via EB7DX.

GREECE, SV. Operators Alex, SV8QG, Pantelis, SV8DCY, Kostas, SV8DCW, Periklis, SV8DTD and Fotis, SV8RMA are QRV as J48GEO from the Geo park on Lesbos Island, IOTA EU-049, during June. Activity is on the HF bands using SSB and various digital modes. QSL via LoTW.

BURKINA FASO, XT. Elvira, IV3FSG is QRV as XT2SE from Ouagadougou until June 13. Activity is on the HF bands. QSL via IK3GES.

VIET NAM, XV. Operators R9LAJ, R9LR, UA9KDF and UA9LDD are QRV as XV9DF from Hon Tre Island, IOTA AS-157, until June 15. Activity is on 40 to 10 meters using CW, SSB and FT8. QSL via M0OXO.

THIS WEEKEND ON THE RADIO. The ARRL June VHF Contest, NCCC RTTY Sprint, NCCC CW Sprint, HA3NS Sprint Memorial CW Contest, DRCG World Wide RTTY Contest, VK Shires Contest, Asia-Pacific SSB Sprint, SKCC Weekend CW Sprintathon, Portugal Day Contest, GACW WWSA DX CW Contest, REF DDFM 6-Meter Contest, Cookie Crumble QRP Contest and The 4 States QRP Group Second Sunday Sprint will certainly keep operators busy this upcoming weekend.

The RSGB 80-Meter Club Data Championship is scheduled for June 10.

The CWops Mini-CWT Test, NAQCC CW Sprint and Phone Fray are scheduled for June 12.

The Canadian National Parks on the Air, CNPOTA, operating event runs for the entire year of 2019, with special stations active from Canada's parks and historic sites.

Please see June QST, page 86, and the ARRL and W A 7 B N M Contest Web Sites for details.



Amateur Radio Examinations Monroe, MI

Monroe County Radio Communications Association Amateur Radio examinations are held the 3rd Saturday of every even numbered month at:

American Red Cross Chapter Bldg.
1645 North Dixie Highway
Monroe, MI 48161

Walk-ins are always welcome.

2019 Schedule:

February 16	April 20
June 15	August 17
October 19	December 21

TESTING BEGINS PROMPTLY AT 9:00 AM

Applicants are expected to have all forms filled out and be ready to take tests at that time. Coffee and doughnuts are available at 8:30 AM. For more information or to make reservations, call Paul Trouten - W8PI at 734-854-2224

Join us at the next meeting

June 20th at 7:30 pm
American Red Cross Chapter Bldg.
1645 North Dixie Highway
Monroe, MI 48162

Local Net

ARPSC Net - Every Monday evening on '72-Monroe (146.72 Mhz) starting at 8:00pm.

ARPSC Meeting first Thursday of every month at the EMD office on Raisinville Rd.. 7:00 PM

By Bill Reed/N9KPH

Here's a summary of some of the events that maybe of interest during June and early July. See this ARRL webpage for more information, including proposed operating frequencies, QSL and/or Certificate availability: http://www.arrl.org/special_events/search/page:1/mod%20el:Event

State QSO Parties

West Virginia – 6/15 to 6/16

General Interest Events:

06/20/2019 - Commemorating the Lives of President Ronald & Mrs. Nancy Reagan

Jun 20 - Jun 24, 1900Z-2359Z, N6R, Simi Valley, CA. Ventura County Amateur Radio Society

6/29/2019 | 156th Anniversary of "The Battle of Gettysburg" Jun 29 - Jul 10, 1200Z-0500Z, WO4L, East Berlin, PA.

06/22-23/2019 | Field Day – Need we say more??

07/01/2019 | 13 Colonies Event, PA Station Jul1-Jul8, 1300Z-0400Z, K2M, New Kensington, PA. 13

Colonies Special Event. This is an excellent, enjoyable event. Check it out! See: <http://13colonies.net> for helpful details.

07/03/2019 | American Mensa Annual Gathering (For the geniuses among us!) Jul 3-Jul 7, 0000Z-1800Z, K7M, Phoenix, AZ. HAMSIG.

There are at least TEN events in mid-July commemorating the Moon landing. Here, are two:

07/14/2019 | 50 Year's First Man on the Moon Jul 14-Jul 28, 1700Z-2000Z, N1A, Milford, OH. Milford Amateur Radio Club. <http://www.w8mrc.com/>

07/19/2019|Apollo Moon Landing 50th Anniversary at Space & Rocket Center Jul 19-Jul 21, 2000Z-2000Z, W4A, Huntsville, AL. Huntsville Amateur Radio Club Celebrating Man's first steps on the moon 50 years ago. SASE for QSL. www.qrz.com/db/W4A