

THE eQRM

SEPTEMBER 2024



The BVARA in Beaver County Pennsylvania



Beaver Valley Amateur Radio Association

W3SGJ

2M Repeater

145.310

PL 131.8



On the Cover: This is a beautiful photo of the rolling hills of Western Pennsylvania in September. Fall in it's full color will soon be here. I suggest a plan for a short trip to the mountains to see the Fall colors. How about you?
 Photo by "photosByJames"

Inside this edition

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Check into our nets

Wednesday 2 Meter

8:30PM on 145.310 MHz PL 131.8

Wednesday 10 Meter

9:00PM on 28.470 MHz

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Who We Are

2024 BVARA OFFICERS

President: Jack Spencer, KZ3Z

Vice President: Dan Grazulis, KB3VSP

2nd Vice Pres.: Doug Lawrence, K3GTX

Treasurer: Pam Spencer, W3PMS

Secretary: Tom Stoops N3XC

Director: Tony Pavilonis, K3AHP

Director: Jim Allen, KC3IXE

Trustee: Doug Hanna, N4YKQ



MONTHLY MEETINGS

E-Board meetings are now held the Saturday before the monthly club meeting.

VE testing begins at 5:00 PM.

Regular meetings are at 6:30 PM

All meetings are held at the Beaver County Emergency Services Center (A.K.A. The 911 Center)
351 14th Street
Ambridge, PA 15003
on the second Thursday of every month (unless otherwise stated).

2024

Sep 12

Oct 10

Nov 14

Dec Club Christmas Party

2025

Jan 09

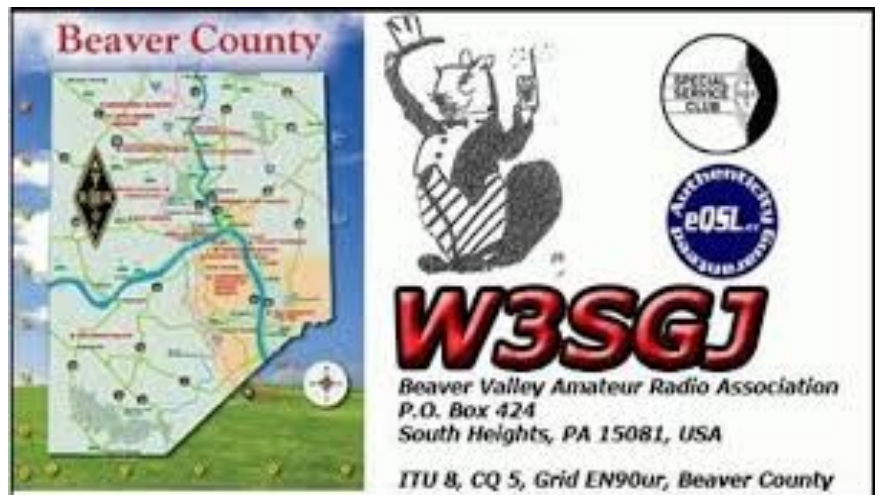
Feb 13

Mar 13

Apr 10

May 08

Jun 12



This Month

This Month:

Speaker:

Rich Soltesz
K3SOM

Topic:

The Real Deal - *Array of Light*

Including:

Continuing with our BVARA Presentation Series this year, our topic this month explores antenna design, construction, testing, production, and providing customer service from the perspective of a man who built over 27,000 antennas with over 150,000 elements in the field. Tom Schiller, N6BY has achieved significant achievements in the field of improving antenna performance. He created new fundamental designs and also set close to 20 world records with *Team Vertical*.

In the real world, one of the most important aspects of building and evaluating antennas is actually using them in environments where the performance can be measured in a real way. The phrase 'everything works' is misleading because everything *does* 'work', to some degree or another. Even a light bulb or a dummy load will 'work' to some extent, because I have heard and worked several local Western PA hams as they were testing and learning about their equipment. The MFJ-259 Antenna Analyzer has a unique 'signature' on the air!

How well an antenna 'works' is termed the 'performance envelope'. Determining how well it works involves repeatable test measurements, mechanical considerations in the design, the proximity to other objects, the entire feed system evaluation from the transceiver to the feed point of the antenna, and consideration of various misunderstandings with an open mind.

But wait, there's more! We'll review *The Illuminator Project* wherein a 150-watt light bulb with a TS-850 Transceiver was used in a 10-10 Contest as well as the ARRL DX CW Contest with surprising results. Comparisons of commercial antennas with some unbelievable performance numbers will also be discussed. This is one presentation you won't want to miss!

Rich's Background:

Extra Class Ham, Licensed since 1962, VE,
B.S. Electrical Engineering

More this Month

Weekly

The Freedom Square Diner in Monaca has a great wait staff. Come let them take your order.

Thursday Morning Breakfast
(or you can have lunch)

Come join us!



BREAKFAST

The BVARA meets every Thursday at the Freedom Square Diner in Center Township, just to the right of the Cinemark Center Township Marketplace at 09:30 AM. All radio amateurs and those interested in amateur radio are encouraged to come join us at our Thursday morning breakfast.



See you

RACES / ARES
The eQRM Urges All County Hams to Participate.

The eQRM urges all Beaver County licensed amateurs to participate in the County's RACES and ARES programs. Any Beaver County Amateur that is interested in participating in the RACES/ARES programs can do so by checking into the Beaver County Public Service Net which meets every Monday evening at 8:30 PM local time on the WW3AAA 146.850 MHz repeater (131.8 PL)



Get your License or Upgrade

If you are interested in getting your first FCC license or upgrading your current amateur radio license, the Beaver Valley Amateur Radio Association holds VE Test sessions (Volunteer Examinations) the second Thursday of each month at the Beaver County Emergency Services Center in Ambridge Pennsylvania prior to our BVARA Club meeting. If there is no meeting there is no test session. Please come take your test with us!

For more information, contact :
Rich Soltesz, K3SOM
(724) 847-0610
k3som@arrl.net



VE TEST SESSIONS

Beaver County Emergency Services Center 351 14th Street Ambridge, PA 15003.
Tests begin promptly at 5 pm on the same day as BVARA Club Meetings
(the second Thursday of the month).
All classes of amateur radio license tests are administered.



ALL candidates MUST bring ALL of the following:

1. 2 forms of I.D. - one MUST be a photo I.D.
2. A pencil AND a pen with blue or black ink.
3. The original AND a photocopy of any valid ham license.
4. The original AND a photocopy of any C.S.C.E.
5. The test fee of \$15 - cash only.
6. Your FRN Number. (free from the FCC, call for details)



New License and Upgrades

BVARA VE Testing

Testing this Month :



August 2024 VE Test Session Results

Our August 2023 VE Test Session was not held, so there were no testing results. We were all at our BVARA Corn Roast! Please see the article later in this *eQRM Newsletter*.



Please come to our next regular Test Session at the September BVARA Club Meeting.

All of our BVARA testing would not be possible without the help of the following Extra-Class VE Team members:

Keith Custard – KC3TMC
Reg Genola – W3REG
Tony Pavilonis – K3AHP
Scott Pelkofer - KC3KYZ
Mick Pyzoha – N3OJP
Bart Stack – KB3NFM
Ron Victorelli – KC3TZT
Bob Winkle – N3AZZ and
Frank Witkowski – W3FJW



73 from Rich Soltesz

– K3SOM, VE Liaison



Membership Information

By becoming a BVARA member you help secure the future of Amateur Radio in Beaver County. Additionally, the BVARA receives a portion of each ARRL membership you purchase!

Join the BVARA and ARRL

| Sign up for: | Price | |
|---|-------------------|-------|
| <input type="radio"/> BVARA full membership | 25.00 | _____ |
| <input type="radio"/> BVARA student membership | 15.00 | _____ |
| <input type="radio"/> BVARA associate membership | 10.00 | _____ |
| <input type="radio"/> BVARA Child under 21 at home membership | 5.00 | _____ |
| One year ARRL membership | 49.00 | _____ |
| A Club Donation | | _____ |
| ARRL Member? Yes No | Total Enclosed | _____ |

Your License Class (If you have one.)

| | |
|-----------------------------------|----------------------|
| <input type="radio"/> Technician | Name _____ |
| <input type="radio"/> General | Address _____ |
| <input type="radio"/> Advanced | _____ |
| <input type="radio"/> Extra Class | Email _____ |
| | Phone _____ |
| | Your Call sign _____ |
| | Your Signature _____ |

Make check or money order payable to:

The Beaver Valley Amateur Radio Association, P.O. Box 424
South Heights, Pa 15081

Hamfests & General Announcements



Radio, Computer, Electronics

SwapFest

**Sunday September 8, 2024
8 A.M. to 1 P.M.**



Buy a ticket, and open your trunk!

**Unionville Fire Department
102 Mahood Road, Butler, PA 16001
(Along PA Route 8, 4 miles north of US 422)**

40° 56' 19" N, 79° 57' 34" W

No firearm sales! No alcoholic beverages permitted in SwapFest area!

No parking or driving on lawn!

FCC Amateur Radio Exams

You must have your FRN number and prepay your FCC fee!

PRIZES

**Yaesu FTM-6000 dual band FM Transceiver
MFJ Mighty-Lite 30A Switching Power Supply
Yaesu FT70DR Dual Band Digital/Analog HT Transceiver
Baofeng UV-17R 144-220-432 MHz HT**

Winner need not be present to win.

50/50 Raffles

Prize tickets are available at the club's table.

Talk in W3UDX 147.36/96, CTCSS 131.8 Hz

Web Site: W3UDX.ORG

Breakfast and lunch available.

(No individual food sales permitted.)

Information: Mike Conlon, N2EM, n2em@arrl.net, 724-496-3008

Sponsored by : Butler County Amateur Radio Association , Inc.

Of Interest to All

Remember back when you could communicate by “Pay Phone” for ten cents? This page is for anyone who wants to communicate with the BVARA community and beyond.

Please send me your article that you would like posted on this page. Please, only topics and language in good taste. As the editor I reserve the option to post it or ignore it. Send your dime to me at: kc3bxc.73@gmail.com



Date: August 21st, 2024

Time: 11 PM, followed by 6 AM

Place: My Kitchen

Imagine my surprise last night when I went to close the kitchen window and this guy was between the screen and the window!

When I opened the window just a little earlier in the evening, the opportunity for something small to enter became a possibility. What should I do? I was tired so I shut the window and went to bed. The next morning, I got up a little before sunrise and this guy was still there. What if the rumor is true that direct sunlight would kill them? That conclusion was probably a result of watching too many vampire movies.

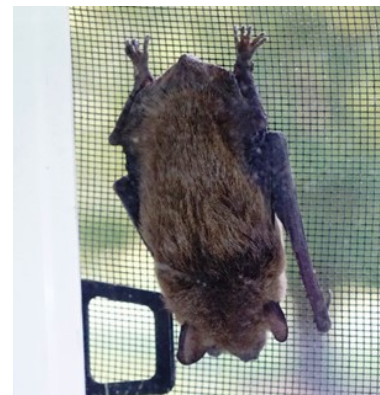
I quickly snapped a photo of the guy (could be a gal) and then got my Aluminum extension pole that I use to keep my ladder line out of the way and between the PVC goal posts. With an easy reach, I lifted up the Kitchen window screen about an inch. Quicker than I could lower the pole, he flew out of captivity and circled the yard a few times, glided on the last pass, and then headed for the woods.

I felt like I had taken a thorn out of the paw of a Lion and his glide-by was his way of saying: "Thank You!"

The little brown bat is nocturnal, resting during the day and foraging at night. Individuals typically emerge from their roosts at dusk, foraging for 1.5–3 hours before stopping to roost. A second foraging bout usually occurs later in the night, ending at dawn.

It produces calls that are high-intensity, frequency modulated (FM) and that last from less than one millisecond (mS) to about 5 mS and have a sweep rate of 80–40 kHz, with most of their energy at 45 kHz. Individuals emit approximately 20 calls per second when in flight.

Rich – K3SOM



The Corn Roast of 2024

What a difference a year can make! Our 2023 Corn Roast weather was hot and muggy. As early evening arrived, thunder and lightning with heavy rainfall reminded us that it was still Summer. Still, last year we had good food, pleasant company, and many enjoyable conversations.

Unlike last year, there were no conflicts about the shelter that we had reserved at the Old Economy County Park; Shelter 1 was ours for the day. As a special bonus, the weather was exceptionally pleasant with low humidity and comfortable temperatures with gentle breezes. Was this nature's way of letting us know that Fall was just around the corner?

Setup and corn shucking began in earnest, with minimal rearranging of the picnic tables within the



Shucking Corn with Kathy, Jim - KC3IXE, Doug - K3GTX, and Doug - N4YKQ

shelter to a comfortable configuration for our club event. Our blue-colored, simulated checkered table covers easily encouraged a family-style outdoor picnic.

As in the past, the large kettle and propane burner were set up just outside the shelter so that the chance of accidental burns could be avoided. Ice chests were deployed to provide safe and cool conditions for some of the food, water and pop. A large cooler was reserved to temporarily

store the steamed corn so that people would not have to wait for a nice hot ear or two of corn.

Electric outlets and outlet strips were put in place for the pulled pork, baked beans, the hot dog and Bratwurst machine as well as hotpots with assorted offerings.

As 5:00 PM approached we began preparing the corn and hot dogs as well as picking up the fried chicken that we had ordered earlier in anticipation of a large crowd. Soon we had approximately 45 hungry people. Members who had not been seen for some time, new members, whole families including small children arrived. The picnic was on! Once again, name tags helped to identify both old and new with many conversations and mingling as people sampled the various food offerings and many desserts.

And what offerings were available! Many imaginative Summer salads filled in one area. Creative vegetables complimented the salads with delicious side dishes.

Better quality hot dogs and Bratwurst competed with some excellent fried chicken in the meat departments.

But the desserts, including cookies, pies, lemon bars,

and so much more demanded a second trip to the food buffet just to try a little of this or that, as if it had been missed with the first pass!



Buffet Line with Lois and Rich - KC3TOO, Jeff - K3SLK, and Keith - KC3TMC and others

Of Interest to All



Jack – KZ3Z,
Doug – N4YKQ,
Dan – KB3VSP

The pleasant weather seemed to encourage so many enjoyable conversations with the opportunity to meet and enjoy the company of both new and old friends.



Inside the Shelter Showing the Approximately
40 BVARA Members, Family, and Guests

But all too quickly, the sun began to set, and twilight began to take over as nightfall approached. A good time was had by all!

Teardown went very smoothly with Shelter 1 cleaned up and restored to its original condition.

Many more photos of the 2024 Corn Roast are on www.flickr/photos/w3sgj for viewing and downloading.

Field Trip to the USS Requin Submarine

Four members of the Beaver Valley Amateur Radio Association boarded the USS Requin WWII Submarine on August 26, 2024 to operate the amateur radio station within the vessel. Art Mueller, WA3BKD was our host as well as the Club Trustee of NY3EC, the amateur radio station aboard the submarine.



Tom - N3XC, Tim – KA3JRT, Rich – K3SOM, and Denny – KR3DX participated in the activities. Jim – KC3IXE, who set up the Field Trip, was unable to attend. All of us had previously toured the Requin back in our 2017 Field Trip or on other occasions with family and friends. This time, we wanted to spend a bit more time by operating the NY3EC station. The call, NYEC, was the original call sign when the Requin was on active duty. Art suggested that operating on 20 and 40 meters at the late morning window were popular bands to make contacts, as well as the two-meter Repeater operated by the Steel City ARC.

We took turns operating the equipment and making several contacts on both HF bands, as well as a contact on two meters. Band conditions were less than ideal, but the large counterpoise to the vertical antennas proved helpful.



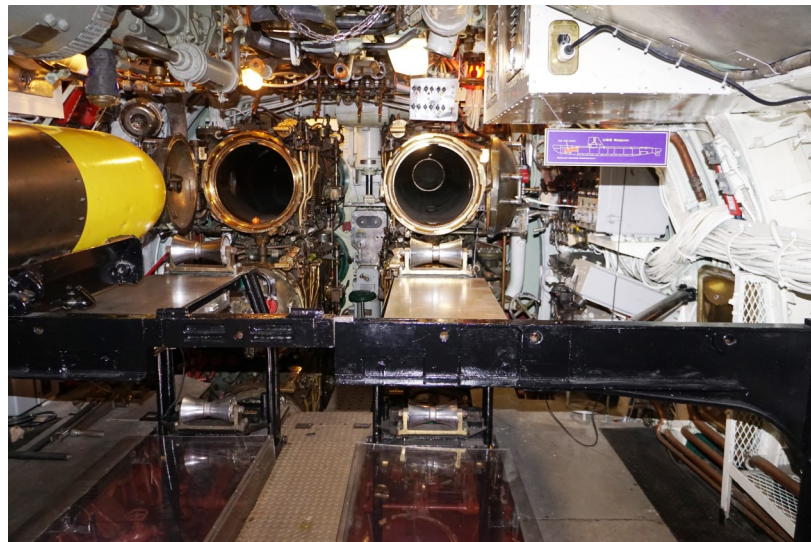
Of Interest to All



Officers Dining Area

One of the hams that we contacted had much interest in WWII submarines but had never been inside one. We invited him to come to Pittsburgh and take the tour for a very interesting trip back 80 years in time.

Torpedo Tubes



Note to others: "Cell Phones are shielded when inside the Requin so the only bars to be had are outside the Requin!"

Of Interest to All

BVARA



September

Butler County ARA Swapfest, September 8th – Unionville Volunteer Fire Company Station 14, 102 Mahood Rd, Butler, PA

ARRL September VHF Contest, September 14th – 16th, CW Phone Digital

State QSO Parties, September 21st – 22nd:

New Jersey

Iowa

Texas

New Hampshire

Washington State Salmon Run

CQ Worldwide DX Contest, RTTY, September 28th – 29th

Maine QSO Party, September 28th – 29th

POTA, POTA – Fall Foliage Makes September Outdoor Operating Great!

October

PA State QSO Party, October 12th and 13th, QSOs on CW and SSB only, no Digital

POTA, POTA – Ditto as above!

Bits and Pieces

Hello all,

It seems like each year Summer just races past me. I remember in Spring I was full of energy to get so many things done. I didn't waste Summer but I still have so much I want to do. Too many things I want to do and too little summer left. It won't be long and that swear word "snow" will be here. So many things I want to get to yet! I am working feverishly...dadgum poles always come to mind.

Thanks to Jeff Waite K3SLK, I was able to get my folded dipole antenna up in the trees. I have an antenna for HF! Jeff shot some lines up in two of my tallest trees to hoist it up. I now have the highest antenna I have had so far in my radio achievements. It's about 40 feet in the air. Now if I could just make time to use it.

This weekend is one of my favorite hamfests, the Butler County ARA Swapfest held at the Unionville Fire Department. This is conveniently close to my home and it is always fun to see so many of my Ham Friends. I am planning to attend. I hope to see you there!

The BVARA Corn Roast was so much fun! The weather could not have been better. The food and friendship were great. It was so nice to visit with everyone and share a great meal. As usual there was more food than we could eat. This is an event I think everyone looks forward to all year. Our Christmas Party will be here soon too. This is another of my "look forward to all year" events.

I could jabber on; I will stop for now. I am excited for the things that are coming! I hope to see you at the Hamfest and the BVARA Club meeting this month. There is so much happening enjoy it.



This is all for now till next month... happy radioing and
be safe in your hobby activities.

Clear on your final, but I will be monitoring.



73 KC3BXC



Radio Sport

Contest Corral

September 2024

Check for updates and a downloadable PDF version online at www.arrl.org/contest-calendar.

Refer to the contest websites for full rules, scoring information, operating periods or time limits, and log submission information.

| Start - Finish | | Bands | Contest Name | Mode | Exchange | Sponsor's Website | | |
|----------------|-----------|-------|--------------|--------------------|--|-------------------|--|--|
| Date-Time | Date-Time | | | | | | | |
| 1 | 1700 | 2 | 0300 | All, no WARC | Tennessee QSO Party | CW Ph Dig | RS(T), TN county or SPC | tnqp.org |
| 2 | 1900 | 2 | 2030 | 3.5 | RSGB 80m Autumn Series, SSB | Ph | RS, serial | www.rsgbcc.org |
| 2 | 2300 | 3 | 0300 | 1.8-28,50 | MI QRP Labor Day CW Sprint | CW | RST, SPC, mbr or pwr | www.miqrp.net |
| 3 | 0000 | 3 | 0200 | 3.5-28 | ARS Spartan Sprint | CW | RST, SPC, pwr | ars-qrp.com |
| 4 | 2000 | 4 | 2100 | 3.5 | UKEICC 80m Contest | Ph | 6-char grid | www.ukeicc.com |
| 5 | 0000 | 6 | 0300 | 7 | Walk for the Bacon QRP Contest | CW | RST, SPC, name, mbr or pwr; 13 WPM max | qrpcontest.com |
| 5 | 1800 | 5 | 2200 | 28 | NRAU 10m Activity Contest | CW Ph Dig | RS(T), 6-char grid | nrau.net |
| 7 | 0000 | 8 | 2359 | 1.8-28 | All Asian DX Contest, Phone | Ph | RS, 2-digit age | www.jarl.org |
| 7 | 0600 | 7 | 0800 | 7,14 | Wake-Up! QRP Sprint | CW | RST, serial, suffix of previous QSO | qrp.ru |
| 7 | 0800 | 8 | 1000 | 50,144,432 | SARL VHF/UHF FM Contest | Ph | RS(T), 6-char grid | www.sarl.org.za |
| 7 | 0800 | 8 | 1000 | 1.8-28 | SARL Field Day Contest | CW Ph Dig | RS(T), # of rigs, category, province or "DX" | www.sarl.org.za |
| 7 | 1300 | 8 | 1259 | 1.8-28 | IARU Region 1 Field Day, SSB | Ph | RS, serial | www.darc.de |
| 7 | 1300 | 8 | 1300 | 3.5-28 | RSGB SSB Field Day | Ph | RS, serial | www.rsgbcc.org |
| 7 | 1400 | 7 | 2200 | 3.5-28 | Ohio State Parks on the Air | Ph | OH park abbreviation or SPC | ospota.org |
| 7 | 1400 | 8 | 1400 | 145 | IARU Region 1 145 MHz Contest | CW Ph Dig | RS(T), serial, 6-char grid | www.iaru-r1.org |
| 7 | 1600 | 7 | 1900 | 7 | AGCW Straight Key Party | CW | RST, serial, class, name, age | www.agcw.de |
| 7 | 2000 | 7 | 2359 | 1.8-28 | CWops CW Open | CW | serial, name | cwops.org |
| 7 | 2000 | 8 | 2000 | 3.5 | PODXS 070 Club Jay Hudak Memorial 80m Sprint | Dig | RST, SPC | www.podxs070.com |
| 8 | 0000 | 8 | 0359 | 3.5-14 | North American Sprint, CW | CW | Other's call, your call, serial, name, SPC | ncjweb.com |
| 8 | 1000 | 8 | 1400 | 144 | WAB 144 MHz QRO Phone | Ph | RS, serial, WAB square or country | wab.internip.net/Contests.php |
| 9 | 0000 | 9 | 0200 | 1.8-28 | 4 States QRP Group Second Sunday Sprint | CW Ph | RS(T), SPC, mbr or pwr | www.4sqrp.com |
| 9 | 1900 | 9 | 2300 | 144 | 144 MHz Fall Sprint | CW Ph Dig | 4-char grid | www.packratvhf.com |
| 11 | 1900 | 11 | 2030 | 3.5 | RSGB 80m Autumn Series, CW | CW | RST, serial | www.rsgbcc.org |
| 14 | 0000 | 15 | 2359 | 3.5-28 | WAE DX Contest, SSB | Ph | RS, serial | www.darc.de |
| 14 | 1500 | 14 | 1900 | 3.5-14 | Africa FT4 DX Contest | FT4 | Signal report, 4-char grid | www.sarl.org.za |
| 14 | 1800 | 16 | 0259 | 50 and up | ARRL September VHF Contest | CW Ph Dig | 4-char grid | www.arrl.org/september-vhf |
| 15 | 0000 | 15 | 0359 | 3.5-14 | North American Sprint, RTTY | Dig | Other's call, your call, serial, name, SPC | ncjweb.com |
| 15 | 1700 | 15 | 2059 | 3.5-28 | BARTG Sprint PSK63 Contest | PSK63 | Serial | bartg.org.uk |
| 15 | 2300 | 16 | 0100 | 1.8-28 | Run for the Bacon QRP Contest | CW | RST, SPC, mbr or pwr | qrpcontest.com |
| 16 | 1900 | 16 | 2030 | 3.5-28 | RSGB FT4 Contest | FT4 | Signal report | www.rsgbcc.org |
| 17 | 1900 | 17 | 2300 | 222 | 222 MHz Fall Sprint | CW Ph Dig | 4-char grid | www.packratvhf.com |
| 19 | 0000 | 20 | 0300 | 14 | Walk for the Bacon QRP Contest | CW | RST, SPC, name, mbr or pwr; 13 WPM max | qrpcontest.com |
| 19 | 0030 | 19 | 0230 | 3.5-14 | NAQCC CW Sprint | CW | RST, SPC, mbr or pwr | naqcc.info |
| 19 | 1900 | 19 | 2000 | 3.5-14 | NTC QSO Party | CW | Max 25 WPM; RST, mbr or "NM" | pi4ntc.nl |
| 20 | 1600 | 20 | 1700 | 3.5 | AGB NEMIGA Contest | CW Ph Dig | RST, serial, mbr (if any) | ev5agb.com |
| 21 | 0000 | 22 | 2359 | 2.3 GHz and Up | ARRL EME Contest | CW Ph Dig | See rules | www.arrl.org/eme-contest |
| 21 | 0900 | 23 | 0759 | 10 GHz to light | ARRL 10 GHz and Up Contest | CW Ph Dig | 6-char grid | www.arrl.org/10-ghz-up |
| 21 | 1200 | 22 | 1200 | 3.5-28 | Scandinavian Activity Contest, CW | CW | RST, serial | www.sactest.net |
| 21 | 1400 | 22 | 0159 | 3.5-28 | New Jersey QSO Party | CW Ph Dig | RS(T), NJ county or SPC | www.k2td-bcrc.org |
| 21 | 1400 | 22 | 0200 | All, no WARC or 60 | Iowa QSO Party | CW Ph Dig | RS(T), IA county or SPC | www.w0yl.com |
| 21 | 1400 | 22 | 2000 | All, no WARC | Texas QSO Party | CW Ph Dig | RS(T), TX county or SPC | www.txqp.net |
| 21 | 1600 | 21 | 2300 | All, no WARC | Wisconsin Parks on the Air | CW Ph Dig | WI park number or SPC | wipota.com |
| 21 | 1600 | 22 | 2200 | 3.5-28 | New Hampshire QSO Party | CW Ph Dig | RS(T), NH county or SPC | www.w1wqm.org |
| 21 | 1600 | 22 | 2359 | 1.8-28,50 | Washington State Salmon Run | CW Ph | RS(T), WA county or SPC | salmonrun.wwdxc.org |
| 25 | 1900 | 25 | 2300 | 432 | 432 MHz Fall Sprint | CW Ph Dig | 4-char grid | www.packratvhf.com |
| 25 | 2000 | 25 | 2100 | 3.5 | UKEICC 80m Contest | CW | 6-char grid | www.ukeicc.com |
| 26 | 1900 | 26 | 2030 | 3.5 | RSGB 80m Autumn Series, Data | Dig | RST, serial | www.rsgbcc.org |
| 28 | 0000 | 29 | 2359 | 3.5-28 | CQ Worldwide DX Contest, RTTY | Dig | RST, CQ zone, (US/VE state/prov) | www.cqwwrtty.com |
| 28 | 1200 | 29 | 1200 | 1.8-28 | Maine QSO Party | CW Ph | RS(T), ME county or SPC | www.ws1sm.com |
| 28 | 1400 | 28 | 2200 | 3.5-28 | Masonic Lodges on the Air | Ph | Lodge name, lodge no., jurisdiction or SPC | cqmorelight.com |
| 28 | 2000 | 29 | 2359 | 1.8-14,28 | AWA Amplitude Modulation QSO Party | Ph | Name, SPC | antiquewireless.org |
| 29 | 0700 | 29 | 1000 | 50 | UBA ON Contest, 6m | CW Ph | RS(T), serial, ON (for ON) | www.uba.be |