

THE eQRM

OCTOBER 2024



The BVARA in Beaver County Pennsylvania

Beaver Valley Amateur Radio Association

W3SGJ



2M Repeater

145.310

PL 131.8



On the Cover: What a beautiful Autumn photo of the Clarion River in Western Pennsylvania. I hope you get some face to face time to enjoy our Fall leaves and some river views.

Photo by Anthony Thomas

Inside this edition

Who We Are	3	Hamfests & General	9
This Month	4	Announcements	
Get a License or Upgrade	6	Of Interest to All	10
New License and Upgrades	7	Bits and Pieces	19
Membership	8	Radio Sport	20



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

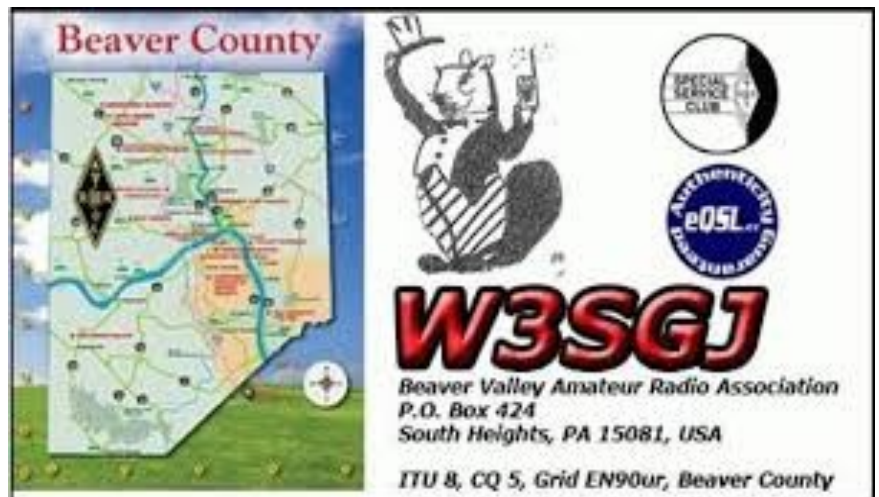
Treasurer: Pam Spencer, W3PMS

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

Oct 10

Nov 14

Dec Club Christmas Party

2025

Jan 09

Feb 13

Mar 13

Apr 10

May 08

Jun 12

Jul 10



This Month

This Month:

Speakers:

BVARA Club Members
Moderator: Rich – K3SOM

Topic:

My Projects Including:
Design/Need, Purchase/Build, Current Status, Results, Lessons Learned

Including:

Continuing with our BVARA Presentation Series this year, our topic this month takes us ‘*One Step Beyond*’ by asking several of our club members to talk about one project. That project can be planned for the future, in purchase (parts or kit), putting it together, built, testing, or in current use. For those who seek knowledge in whatever form, here is an opportunity for you! If it’s already finished, then what has been your experience with it? What would you change, if anything?

I’m expecting around five club members, more or less, to tell us what they’re doing. Nothing formal, feel free to ask constructive questions of our fellow club members; a question starts a conversation, and others may also have questions too. Maybe a club member is stuck at one of the early stages. For example, where can I buy this widget, or can this be built from this or that? You get the idea. Maybe everything is there except for this one item.

To keep some boundaries around this, I suggest that once you start, I will give you an indication that 10 minutes are up and you have five more minutes to finish. That way, the other club members who have agreed to tell us about a project of theirs get an equal opportunity to show the club what they are working on or planning. My indicator is a Staples “*That was easy!*” button.

But wait, there’s potentially more! My *Wolf River Coil Antenna Evaluation Project* took about three months to painstakingly collect real-time data, but I’ll summarize some of the results. I’ll also describe the performance of my QRP Labs *QDX SDR QRP Transceiver*. I gave a presentation on connecting a *Quadra*, a small PC no bigger than a pack of cigarettes, to an amazing software application called *HamClock* using a compact and efficient Linux Operating System. If there’s still time, I’ll describe the most recent project of an HD upgrade that I did to my Field Day PC with a new Samsung SSD and the performance improvement that I now enjoy. This will be one presentation that you won’t want to miss!

Rich’s Background:

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

More this Month

Weekly

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

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:

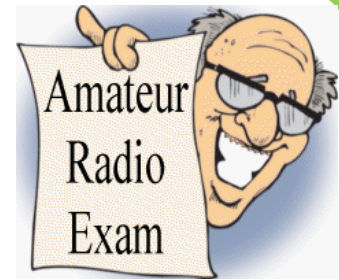
1. 2 forms of I.D. - one MUST be a photo I.D.
2. A pencil AND a pen with blue or black ink.
3. The original AND a photocopy of any valid ham license.
4. The original AND a photocopy of any C.S.C.E.
5. The test fee of \$15 - cash only.
6. Your FRN Number. (free from the FCC, call for details)



New License and Upgrades

BVARA VE Testing

Testing this Month :



September 2024 VE Test Session Results

Our September VE Test Session had one candidate, who achieved his Technician license class. Our electronic filing system once again worked superbly.

Testing was conducted at our normal location at the Beaver County Emergency Services Center in Ambridge, PA. Our next VE Test Session will be on October 10th, 2024.

Congratulations to:

Bruce E. Steffine, KC3ZTF, Technician, Ambridge, PA

If you hear him on the air, please congratulate him on his achievement!

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

Things look pretty bleak ahead when it comes to hamfests.



We will just have to wait.

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

Of Interest to All

Special Events*

Working special event stations is an enjoyable way to help commemorate history.

Below are samples for this month. Many provide a special QSL card or certificate.

Oct. 12, 1600Z – 2300Z, NI6IW, San Diego, CA. USS *Midway* Museum Ship. **Commemorating the Birthday of the US Navy on October 13, 1775.** 7.250 14.320; 14.070 PSK31 D-STAR on PAPA System repeaters. QSL. USS *Midway* Museum Ship COMEDTRA, 910 N. Harbor Dr., San Diego, CA 92101. www.qrz.com/db/ni6iw

Oct. 12 – Oct. 14, 0000Z – 2359Z, K0C, Bridgeton, NJ. New Jersey Knights of Columbus Amateur Radio Club. **Celebration of Columbus Day.** 7.185 14.250 18.140 21.350. Certificate & QSL. Thomas M. Perrotti, N2JIE, 785 Vineland Ave., Bridgeton, NJ 08302-4822. www.nj2kc.org

Oct. 19, 1400Z – 2000Z, K4RC, Williamsburg, VA. Williamsburg Area Amateur Radio Club. **Yorktown Special Event.** 7.265 14.265. Certificate & QSL. QSL Manager, WAARC, P.O. Box 1470, Williamsburg, VA 23187. *The Virginia Historic Triangle Certificate is available for contacting the Jamestown, Williamsburg, and Yorktown Special Event Stations.* www.k4rc.net/events/special-event-stations

Oct. 31, 1400Z – 2000Z, W0YFZ, Anoka, MN. Anoka County Radio Club. **Halloween Special Event Station.** 7.250 14.250; 7.056 FT8. QSL. Anoka County Radio Club, P.O. Box 982, Anoka, MN 55303. www.anokaradio.org

Oct. 31 – Nov. 1, 1900Z – 0001Z, WA4TRS, Fairview, NC. The Road Show Amateur Radio Club, Inc. **BOO! On Bald Mountain.** 14.313 18.313. QSL. The Road Show ARC, 57 Echo Lake Dr., Fairview, NC 28730. www.wa4trs.org

*Courtesy American Radio Relay League (ARRL), *QST Magazine*, October 2024

Largest Solar Flare Event Yet

Check out this incredible solar flare event that boggles the mind at: <https://www.spaceweather.com/archive.php?view=1&day=04&month=10&year=2024>

AURORA ALERTS | SUN

Current Conditions

Solar wind

speed: 408.6 km/sec

density: 0.71 protons/cm³

more data: [ACE](#), [DSCOVR](#)

Updated: Today at 0147 UT

X-ray Solar Flares

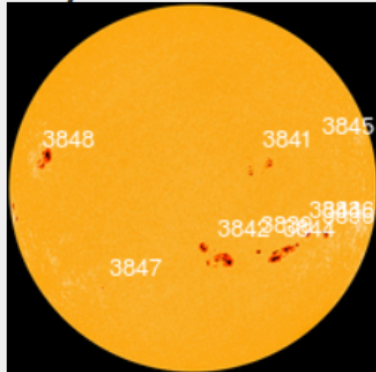
6-hr max: **M1** 1103 UT Oct04

24-hr: **M6** 2028 UT Oct03

[explanation](#) | [more data](#)

Updated: Today at: 1350 UT

Daily Sun: 04 Oct 24



Expand: [labels](#) | [no labels](#) | [Carrington](#)

The solar disk is peppered with dangerous sunspots. Four of them (3841, 3842, 3843, 3844) have delta-class magnetic fields that harbor energy for [M-class](#) or [X-class](#) solar flares.

Credit: SDO/HMI

Sunspot number: 229

[What is the sunspot number?](#)

Updated 04 Oct 2024

Sunspot number: 229

[What is the sunspot number?](#)

Updated 04 Oct 2024

Spotless Days

Current Stretch: 0 days

2024 total: 0 days (0%)

2023 total: 0 days (0%)

2022 total: 1 day (<1%)

2021 total: 64 days (18%)

2020 total: 208 days (57%)

2019 total: 281 days (77%)

2018 total: 221 days (61%)

2017 total: 104 days (28%)

2016 total: 32 days (9%)

2015 total: 0 days (0%)

2014 total: 1 day (<1%)

2013 total: 0 days (0%)

2012 total: 0 days (0%)

2011 total: 2 days (<1%)

2010 total: 51 days (14%)

2009 total: 260 days (71%)

2008 total: 268 days (73%)

2007 total: 152 days (42%)

2006 total: 70 days (19%)

Updated 04 Oct 2024

Thermosphere Climate Index

today: 33.26×10^{10} W **Hot**

Max: 49.4×10^{10} W **Hot** (10/1957)

Min: 2.05×10^{10} W **Cold** (02/2009)

[explanation](#) | [more data](#): [gfx](#), [txt](#)

Updated 03 Oct 2024

The Radio Sun

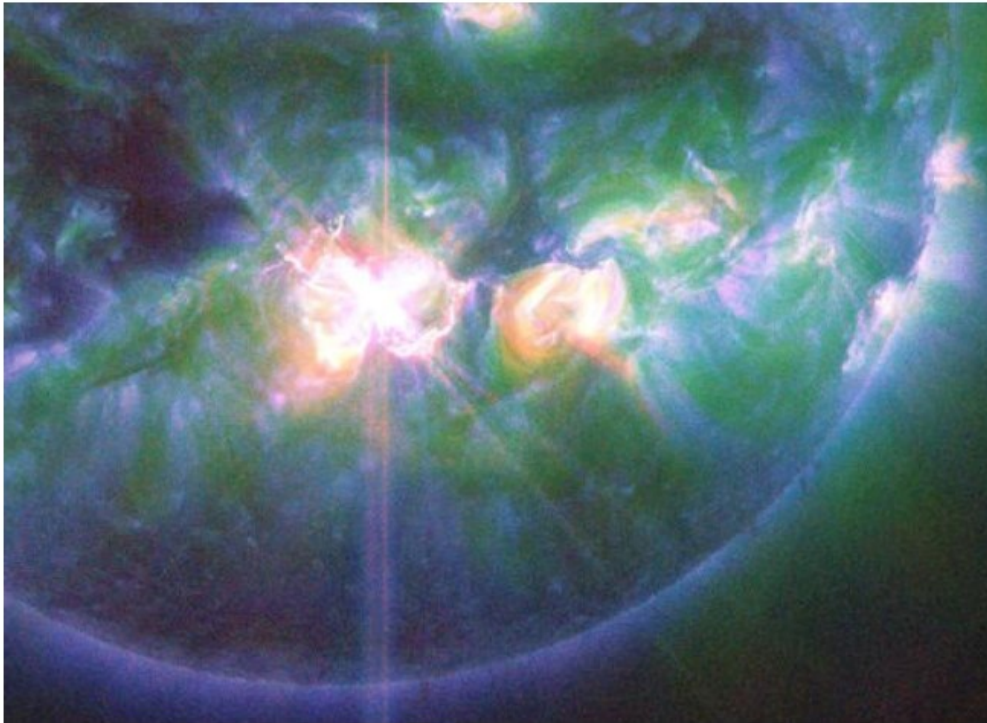
10.7 cm flux: 312 sfu

[explanation](#) | [more data](#)

Updated 04 Oct 2024

Of Interest to All

THE STRONGEST FLARE YET (UPDATED AGAIN): Sunspot AR3842 exploded again on Oct. 3rd, producing the strongest solar flare of Solar Cycle 25 so far. NASA's Solar Dynamics Observatory recorded the X9.1-category blast:



Radiation from the flare ionized the top of Earth's atmosphere and caused a deep shortwave blackout over Africa and the South Atlantic. Ham radio operators in [the area](#) may have noticed loss of signal at frequencies below 30 MHz for as much as a half an hour after 12:18 UTC.

The explosion also produced [a halo CME](#). Now that a full set of images has arrived from the Solar and Heliospheric Observatory (SOHO), it's clear that the CME is potent. NOAA forecasts of a strong geomagnetic storm when it arrives on Oct. 6th are probably correct. **CME impact alerts:** [SMS Text](#)

TWO CMEs ARE HEADING FOR EARTH: Confirmed: Two CMEs are now heading for Earth following consecutive X-flares (X7.1 and X9.1) from active sunspot AR3842. According to NOAA and NASA models, [the first](#) will strike Earth on **Oct 4th** and [the second](#) (more potent) will strike on **Oct. 6th**. The dual impacts could spark strong [G3-class](#) geomagnetic storms with auroras at mid-latitudes, especially on Oct. 6th. **CME impact alerts:** [SMS Text](#)

Of Interest to All

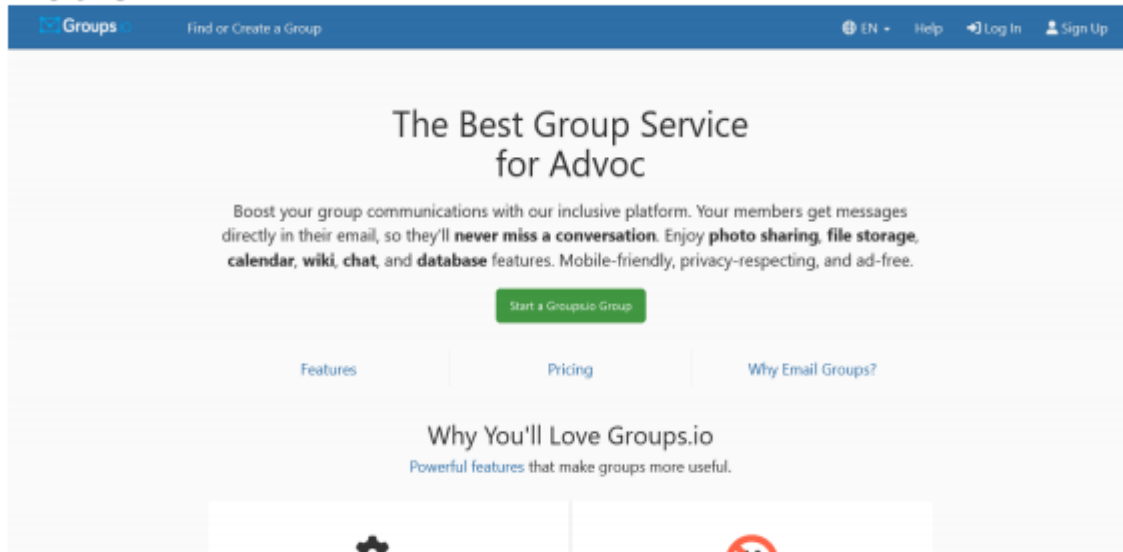
Groups.io

At the September club meeting I mentioned that the club has a page on groups.io. Groups.io is website that hosts e-mail reflectors, or groups, that may be of interest to people. Groups.io replaced the old Yahoo Groups when Yahoo decided to stop hosting web groups.

I had also mentioned that not many members have signed up for the club's group and how easy club communications would be if more members signed up. Well, one of the members suggested that I write a tutorial for signing up for the group, and here is my attempt at that.

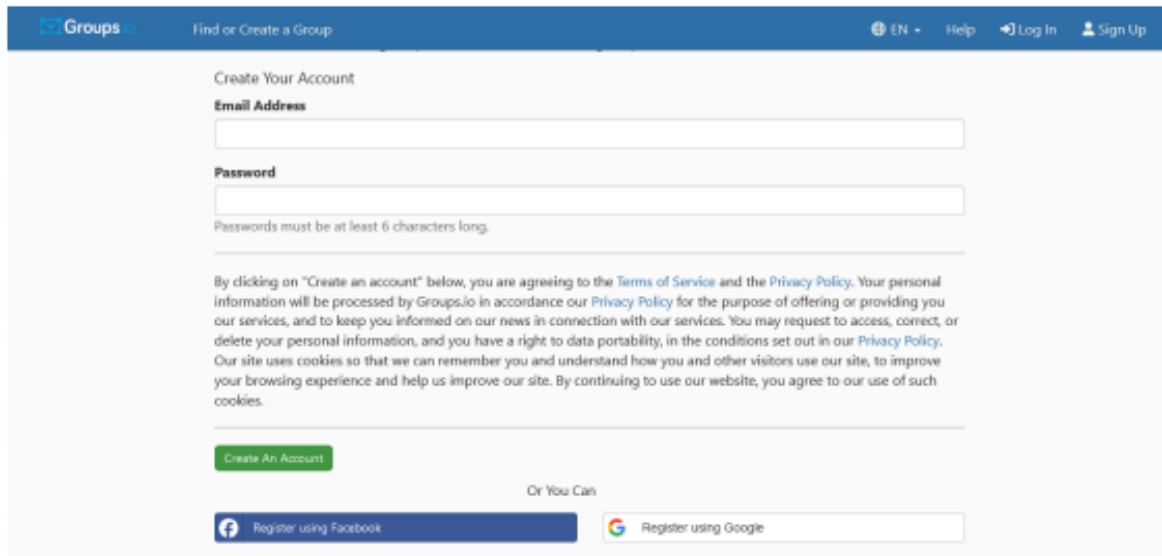
If you already have a groups.io account, just search BVARA and you will find us. I have the old club patch design on the page (you know the one with yellow background, blue writing, and the tuxedo-wearing beaver).

If you don't have a groups.io account, signing up is easy. Point your favorite web browser to <<https://groups.io/>>. The page should look like this:



Look in the top right corner for "Sign Up" and sign up. The sign-up screen will look like this:

Of Interest to All



You have the option of signing up using your e-mail address and a password that you create, or using your Facebook or Google accounts to create a groups.io account.

Once you have a groups.io account search for BVARA and request to join. I have to approve memberships, so I will get an e-mail showing your request to join. This is the important part, BE PATIENT. I have a day job and they expect me to work on their stuff when I'm there. Once your membership is approved, you are all set. You can see old posts and post messages to the group. You can adjust settings to receive a new e-mail every time someone posts to the group or receive a daily digest of posts. You can also sign in to groups.io and browse the page at your leisure..

After you get on groups.io you can search for other groups that interest you. I think I am up to 33 groups that I have subscribed to. These include groups specific to the Icom 7300, Yaesu FT-817, Drake radios (yes, old tube equipment), Kenwood TH-D74 and -D75 (yes, I really own something from each of the "big three"), Wouxun radios, Baofeng (did I mention that I also have Chinese stuff?), and many more. Let your imagination run wild and you will probably find more

Of Interest to All

groups that interest you. Be aware that some group owners have to approve new memberships and some may require that posts made by new members be approved before being posted to the group. Each group home page has the rules for that group, so be sure to read them.

I hope to see you all on the group.

Doug, N4YKQ

Outdoor Immersion

RENEWING VETERAN & MILITARY RESILIENCE

Outdoor Immersion is a Community Care Mission using outdoor activities to create connections of friendship, moving them from isolation to community and rebuilding resilience physically, mentally and spiritually.



BVARA members,

I'm still looking for volunteers for the Outdoor Immersion Run 4 Resilience held in Raccoon Creek State Park on Saturday, November 9. Time is from 7 AM to approximately 4:30 PM.

Don't worry about experience or equipment. At this point I have several experienced operators signed up, so you would be paired with someone who has worked this event previously.

Please let me know if you can help out with this event.

Doug, N4YKQ

Of Interest to All

BVARA

October

State QSO Parties, October 12th – 13th:

- Nevada
- Arizona
- Pennsylvania
- South Dakota



Oceania DX Contest, CW, October 12th – 13th

New York State QSO Party, October 19th – 20th

Illinois State QSO Party, October 20th – 21st

ARRL School Club Roundup, October 21st – 25th

CQ Worldwide DX Contest, CW, October 26th – 27th

POTA, POTA – Fall Foliage Could Make October Outdoor Operating Great!

November

Election Day, November 5th so be sure to vote!

BVARA Election of Officers and the Ham of the Year Nomination, November 14th

Thanksgiving Holiday, November 28th

POTA, POTA – Dress warm!

Bits and Pieces

Hello all,

Welcome to October! Autumn, my favorite time of year. It doesn't last long enough for me. I like the changing of the leaves, the cool nip in the air and the days become shorter. It's all hinting at that bad word "Winter"! Well winter isn't the worst thing. With Autumn comes the hints that I better get my stuff in order before the cold weather closes in. How about you? Do you have any pressing radio chores to get done?



I think about things like checking feed lines for cracks or plain weather wear and any grounds that need cleaned & reattached. How about you, any UV / weather beaten antenna ropes that maybe need replaced? Maybe you have that last antenna you want to put up. I encourage you to "Git'er done". We have been blessed with so much nice weather in September, we never know how long it will last in October. If you do have some radio chores to get completed make a plan and call some ham friends to come help you. Be safe. Always plan and get help if you need it. I am pretty certain your ham friends would enjoy visiting you at home rather than in a hospital.

I have been thinking. (That can be terrifying.) No, in a good way. When was the last time you invited someone to your radio shack? Have you any one you can Elmer? It would be a good time to get someone new interested in radio. With cooler weather on the way we all will be spending more time indoors. What better way to spend a cool evening than introducing someone to our great radio hobby? Take time, invest in a person and get them involved in our radio hobby. Ham Radio is a great life-long hobby. Who can you infect with the radio bug? Keep our radio hobby alive and growing, Elmer someone now. Did I mention **NOW** is a good time to invite a new person into the radio hobby? Well, what are you waiting for? Get busy.

This is all for this month... happy radioing and
be safe in all your radio hobby activities.

Clear on your final, but I will be monitoring.



73 KC3BXC



Contest Corral

October 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					
3 0000	4 0300	7	Walk for the Bacon QRP Contest	CW	13 WPM max; RST, SPC, name, mbr/pwr	qrptest.com/pigwalk40
3 1700	3 2000	3.5	SARL 80m QSO Party	Ph	RS, serial, grid or QTH	www.sarl.org.za
3 1700	3 2100	28	NRAU 10m Activity Contest	CW Ph Dig	RS(T), 6-char grid square	nrau.net
5 0000	6 2359	No WARC	Collegiate QSO Party	CW Ph Dig	School ID or SPC, RS(T)	collegiateqsoparty.com
5 0600	6 0600	1.8-28	Oceania DX Contest, Phone	Ph	RS, serial	www.oceaniadxcontest.com
5 0800	5 1400	902 and above	902 MHz and Up Fall Sprint	CW Ph Dig	6-char grid square	www.packratvhf.com/index.php/fall-sprints
5 1200	6 1159	1.8-28	Russian WW Digital Contest	Dig	RST(Q), oblast code or serial	www.rdrclub.ru
5 1400	6 1400	435 and above	IARU Region 1 UHF/Microwaves Contest	CW Ph Dig	RS(T), serial, 6-char grid square	www.iaru-r1.org
5 1600	6 1100	3.5,7	International HELL Contest	Dig	RST, serial	www.darc.de
5 1600	6 2200	1.8-28	California QSO Party	CW Ph	Serial, CA county or SPC	www.cqp.org
6 0600	6 0900	3.5	UBA ON Contest, SSB	Ph	RS, serial, ON section (if ON)	www.uba.be
6 2200	6 2359	3.5-14	Peanut Power QRP Sprint	CW Ph	RS(T), SPC, peanut no. or pwr	www.nogaqrp.org
7 1900	7 2030	3.5	RSGB 80m Autumn Series, CW	CW	RST, serial	www.rsgbcc.org
8 0000	8 0200	3.5-28	ARS Spartan Sprint	CW	RST, SPC, pwr	ars-qrp.com
8 1800	8 1929	3.5,7	DARC RTTY Sprint	Dig	RST, DOK/"NM," or serial	www.darc.de
8 1900	8 2000	3.5	IRTS 80m Evening Counties Contest	CW Ph	RS(T), serial, county (if EI/GI)	www.irts.ie
10 0001	10 2359	28	10-10 Int'l 10-10 Day Sprint	CW Ph Dig	Name, mbr or "0," SPC	www.ten-ten.org
12 0000	13 1559	3.5-28	Makrothen RTTY Contest	Dig	4-char grid square	www.pl259.org
12 0000	12 2359	1.8-28	QRP ARCI Fall QSO Party	CW	RST, SPC, mbr or pwr	qrparki.org
12 0300	13 2100	1.8-28,VHF/UHF	Nevada QSO Party	CW Ph Dig		nvqso.com
12 0600	13 0600	1.8-28	Oceania DX Contest, CW	CW	RST, serial	www.oceaniadxcontest.com
12 1200	13 1200	3.5-28	Scandinavian Activity Contest, SSB	Ph	RST, serial	www.sactest.net
12 1500	13 0500	1.8-28	Arizona QSO Party	CW Ph	RS(T), AZ county or SPC	www.azqp.org
12 1600	13 2200	No WARC	Pennsylvania QSO Party	CW Ph	Serial, PA county or ARRL/RAC section	paqso.org
12 1800	13 1800	1.8-28,50,144	South Dakota QSO Party	CW Ph	RS(T), SD county or SPC	www.sdqsoparty.com
12 2000	13 2000	1.8	PODXS 070 Club 160m Great Pumpkin Sprint	Dig	RST, SPC	www.podxs070.com
12 2130	12 2330	7	Argentina National 7 MHz Contest	Ph	RS, 2-digit year first licensed	www.lu4aa.org
13 0600	13 0900	3.5	UBA ON Contest, CW	CW	RST, serial, ON section (if ON)	www.uba.be
13 1300	16 0700	1.8-28,50,144	Classic Exchange, Phone	Ph	Name, RS, SPC, equipt model/mfgr	www.classicexchange.org
14 0000	14 0200	1.8-28	4 States QRP Group Second Sunday Sprint	CW Ph	RST, SPC, mbr or pwr	www.4sqrp.com
16 1900	16 2030	3.5	AGCW Semi-Automatic Key Evening	CW	RST, serial, 2-digit year first used a bug	www.agcw.de
16 1900	16 2030	3.5	RSGB 80m Autumn Series, Data	Dig	RST, serial	www.rsgbcc.org
17 0000	18 0300	14	Walk for the Bacon QRP Contest	CW	13 WPM max; RST, SPC, name, mbr/pwr	qrptest.com/pigwalk20
17 1900	17 2000	3.5-14	NTC QSO Party	CW	25 WPM max; RST, mbr, or "NM"	pi4ntc.nl
19 0000	20 2359	50-1296	ARRL EME Contest	CW Ph Dig	4-char grid square	www.arrl.org/eme-contest
19 0000	20 2359	3.5-28	JARTS WW RTTY Contest	Dig	RST, age of operator	jarts.jp
19 0000	20 2359	1.8-28	YBDXPI FT8 Contest	Dig	4-char grid square	contest.ybdxpi.net
19 0001	20 2359	28	10-10 Int'l Fall Contest, CW	CW	Name, mbr or "0," SPC	www.ten-ten.org
19 1400	21 0200	No WARC	YLRL DX/NA YL Anniversary Contest	CW Ph Dig	Serial, RS(T), ARRL Section or PC	ylrl.net/contests
19 1400	20 0200	No WARC	New York QSO Party	CW Ph Dig	RS(T), NY county or SPC	www.nyqp.org
19 1500	20 1459	3.5-28	Worked All Germany Contest	CW Ph	RS(T), DOK or "NM" or serial	www.darc.de
19 1500	20 1500	1.8	Stew Perry Topband Challenge	CW	4-char grid square	www.kkn.net/stew
19 2000	19 2359	1.8-28,50	Feld Hell Sprint	Dig	RST, mbr, SPC, grid	sites.google.com/site/feldhellclub
20 0000	20 0200	14,21	Asia-Pacific Fall Sprint, CW	CW	RST, serial	jsfc.org/apsprint
20 0700	20 1000	144	UBA ON Contest, 2m	CW Ph	RS(T), serial, ON section (if ON)	www.uba.be
20 1300	23 0700	1.8-28,50,144	Classic Exchange, CW	CW	Name, RST, SPC, rcvr/xmtr model	www.classicexchange.org
20 1700	21 0100	1.8-28,50,144	Illinois QSO Party	CW Ph Dig	RS(T), IL county or SPC	w9awe.org/ilqp
20 2300	21 0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or pwr	qrptest.com/pigrun
21 1300	25 2359	No WARC	ARRL School Club Roundup	CW Ph Dig	RS(T), class (I/C/S), SPC	www.arrl.org/school-club-roundup
24 1900	24 2030	3.5	RSGB 80m Autumn Series, SSB	Ph	RS, serial	www.rsgbcc.org
26 0000	27 2359	1.8-28	CQ Worldwide DX Contest, SSB	Ph	RS, CQ zone	www.cqwww.com
28 2000	28 2130	3.5-28	RSGB FT4 Contest	Dig	Signal report	www.rsgbcc.org
30 2000	30 2100	3.5	UKEICC 80m Contest	CW	6-char grid square	www.ukicc.com