

Harrisburg
Radio
Amateurs
Club



W3UU NEWSLETTER

— OCTOBER 2023 —

Club Officers:

PRESIDENT:

Terry Snyder, WB3BKN
WB3BKN1@gmail.com

VICE PRESIDENT:

Chuck Maletich, KA1YSR
ka1ysr@outlook.com

SECRETARY:

Frank Aponte, K3FXA
k3fxa@frankaponte.com

TREASURER:

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k3fxa@frankaponte.com

LICENSE TRUSTEE:

David Dormer, KC3MG
dddormer@gmail.com

EQUIPMENT TRUSTEE:

Terry Snyder, WB3BKN
WB3BKN1@gmail.com

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WEBMASTER: W3UU.ORG

Rick Taylor, K2RBT
webmaster@w3uu.org

EMCOMM:

Robert Saber, K3RTS
k3rts1@gmail.com

MEMBERSHIP:

Tim Lehman, W4NKC
w4nkc.hv@gmail.com

NEWSLETTER EDITOR:

Curt Sanders, K3URT
newsletter@w3uu.org

ELMER TIME COORDINATOR:

Steve Shoemaker, KC3VPJ
steve7shoe@gmail.com

HAMFESTS & REPEATER:

Terry Snyder, WB3BKN
WB3BKN1@gmail.com

NET OPERATIONS:

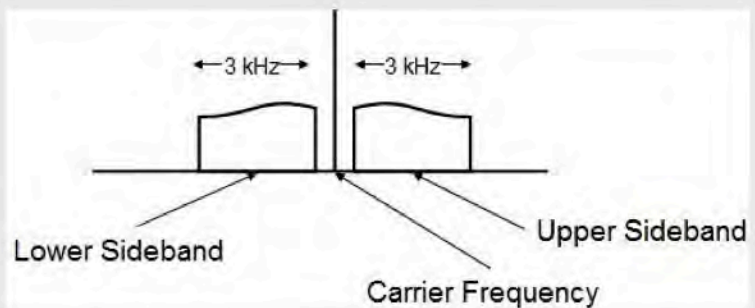
Curt Sanders, K3URT
k3urt@w3uu.org

VE TEAM LEADER:

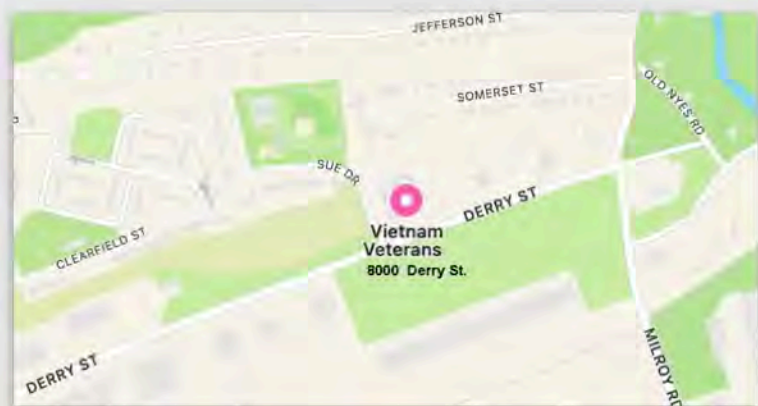
Tim Lehman, W4NKC
w4nkc.hv@gmail.com

QST: NEXT MEETING is
**WEDNESDAY, 11TH
OCTOBER, 1830~2030L**
at the Vietnam Veterans of
America Capital Chapter 542, 8000 Derry Street,
Harrisburg, PA.

All are welcome! Business meeting at 1830-1900~, followed by **Elmer Time: Band Edge Blues**. With the upcoming PA QSO Party, and the new HF hams who will be participating, an explanation of “band edge” and how it applies to good operating practice. Avoid the “Out Of Your Allowed Band” notice. (See page 8 for current band allocation chart.) **Terry, WB3BKN**, will be the presenter.



— Past FCC Amateur Radio Technician Class Exam graphic.





The Harrisburg Radio Amateurs Club Inc., [HRAC] formed 1 July 1946, as an association of individuals commonly interested in amateur radio, based in Harrisburg, Pennsylvania. It is an ARRL affiliate club.

At the end of World War II, many veterans returned to the Harrisburg area trained and used radio communications in the military. It soon became a common factor among local hobby enthusiasts. Fifty-eight charter members developed the original constitution and bylaws for the club. In 1960, HRAC became a non-profit corporation in Pennsylvania.

The club continues to promote amateur radio in the area in many ways. HRAC is involved with young people by helping with scouting's JOTA activities and promoting amateur radio with school clubs and organizations.

Since 1949, members have provided communications for the American Red Cross in Harrisburg for Dauphin County and Pennsylvania Emergency Management. In addition, we conduct periodic training sessions for emergency responders.

HRAC has three hamfests throughout the year: July's **Firecracker Hamfest** / Eastern Pennsylvania Section Convention is always the Saturday before the first Sunday in July. During the convention, you may hear special event station W3UU from the hamfest tailgating area. We set up and operate W3UU to demonstrate amateur radio and invite operators to join in and make contacts. Second: **Oktoberfest**. Third: the well attended **WinterFest** in January is an indoor tailgate fest.

HRAC Club calendar 2023:

- October**11th, club meeting.
21st, license testing (see page 4).
28th, **OctoberFest** (see page 5).
- November**8th, club meeting.
- December**13th, club meeting ELECTIONS; cookie exchange.
16th, license testing (see page 4).
- January 2024**10th, club meeting.
13th, **WinterFest**
- February**14th, club meeting
17th, license testing (see page 4)
- March**13th, club meeting.
- April**10th, club meeting.
19th, license testing (see page 4).

Please consider making a presentation at "Elmer Time." Everyone has expertise in something and can bring something to the table. Do more than contemplate. DO it.

— Club station W3UU —

Repeater Frequency:
 146.760 MHz, minus .600 MHz offset.

Repeater CTCSS Tone:
 100.0 Hz (Encode/Decode)

Weekly Net: Wednesdays at 1900L, except 2nd Wednesday of the month.

Website: W3UU.org

FaceBook: www.facebook.com/Harrisburg-Radio-Amateurs-Club-208171495915056/

HAM HISTORY —100 years ago—

The Wireless Club of the school under the direction of John C. Yodcr is making plans for the work of the coming year. The boys are going to keep notebooks in which they will make records of new inventions and feature in the radio world as well as records of their own and the club work. The boys will subscribe for a number of the up-to-date and live radio magazines and parts of a radio set will be made by members of the club. The club has its own set and a large number of the boys have sets in their homes. The boys expect to be able to give radio concerts for the benefit of the whole school at times during the winter. Russell Mummert is the president and Frank Hill the secretary. The members are: David Abramson, Eugene Adams, Elwood Baker, Herbert Beam, Kenneth Beck, Paul Beyers, Richard Boyer, Winfield Brodbury, William Chenoweth, Donald Conrad, James Cooper, Chester Crowl, Samuel Dailey, Lester Daniels, Jay Detweiler, William Glover, Louis Goldberg, Albert Heisley, Frank Hill, Joseph Hinkle, Francis Iorio, Frank Johnson, Marshall Kelley, Harold Lysie, Alton Maxwell, Russell McClellan, Howard McCurdy, William Miller, Robert Moorhead, Russell Mummert, Elwood Norringer, Howard Peffley, Alton Richardson, Glenn Sweezy, Lester Thompson, James Webster, Charles Wiley, Anthony Winger, Andrew Young and Jack Gross.

"Camp Curtin Notes," Harrisburg Telegraph, 8 October 1923, p. 21.

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Harrisburg Radio Amateurs Club News

★ **WEDNESDAY NIGHT NET:** Would you like to have an opportunity to operate the HRAC Weekly Net on the W3UU repeater?

Open to licensed HRAC members, the HRAC Weekly Net is held every Wednesday evening except the 2nd Wednesday of the month (club meeting night at 1830L). Topics range from club business and events, "Swap and Shop," and general information regarding amateur radio at large.

If you are interested in serving as Net Control, don't hesitate to get in touch with Curt: K3URT@w3uu.org

Get on the air! If we get a cohort of volunteers, the duty will be spread out on a rotating basis.

★ "MEMBER SPOTLIGHT" will feature a member from the HRAC community. A short bio with pre-questions like how you got into ham radio

and your motivation. The editor will send you a final copy before publication. Please respond if tapped as the selected featured member. (Thanks to *Mike KD3MAD* for the suggestion.)

★ **MEMBERSHIP MANAGER,** **Tim W4NKC**, reports at the September 2023 meeting, there are 68 members, with 46 as members of ARRL, making 67.6% ARRL affiliation (no change from previous month).

★ **ELMER TIME** coordinator **Steve, KC3VPJ**, is looking for folks to step forward to inform and educate. No experience is necessary! Contact: steve7shoe@gmail.com

September Elmer Time was presented by **Glenn, K3SWZ**, giving an excellent overview of the Pennsylvania QSO Party contest upcoming in October.

— Moving da Stuff —



A big thanks to: (left-to-right) Steve, KC3VPJ, Chuck, KA1YSR, Paul, KA3SYG and behind the camera, Terry, WB3BKN who moved the club's multiplying "stuff" to a larger storage space, 27 September.

QUA HRAC? Send to: newsletter@w3uu.org

Deadline for next newsletter submissions is by end of business day, Wednesday, 1 November, 2023.

EMCOMM:

Dauphin County, PA
ARES/RACES



MEETING & NEWS

Bob Saber, K3RTS, Dauphin County ARES Emergency Coordinator and RACES Radio Officer announces in-person meetings are on the **4th Thursdays of the month at 1900L**. The next meeting is Thursday, **28 September** at Lower Paxton Twp. Municipal Building, 425 Prince St., Harrisburg.

CONTACT:

- ☑ k3rts1@gmail.com
- ☑ ares.harrisburgpa@gmail.com
- ☑ **Dauphin County ARES Training Net:** every Monday at 1900L on 145.110 (W3ND, PL 131.8; emergency alternative: W3ND, 448.075, PL 123.0).
- ☑ **Facebook:** www.facebook.com/profile.php?id=100067020090800
- ☑ **YouTube channel:** www.youtube.com/@dauphincountyares-races1195

- **EPA Simulated Emergency Test, SET**, will be held in the EPA and nationally on Saturday, 7 October. See ARRL: <http://www.arrl.org/news/view/2023-set-exercise-to-test-skills-and-emergency-preparedness>
- Planning continues for the Sunday, 5 November **10th Annual Swatara Hero's Run**. Dauphin County ARES/RACES will provide communications. Participants are encouraged to come dressed in their favorite hero's outfit.

This unique course takes you through the Harrisburg Mall, the Tecport business district and along Paxton Street. This will be the final event — make this the best year yet with your help!

Source: CRIMEWATCH@: <https://dauphin.crimewatchpa.com/swatara-pd/3028/content/5k-hero-run-registration-now-open>

Dauphin County ARES/RACES is not affiliated with any club — but all are welcome!

LOCAL AREA NETS (All times are local)

MONDAYS

- ◆ 1900: @145.110 MHz, 131.8 Hz Tone, FM, W3ND, **Dauphin County ARES/RACES** Training Net.
- ◆ 2000: @146.970 MHz, 123.0 Hz Tone, FM, W3HZU **Keystone VHF Club** net, York.
- ◆ 2030: @146.460 MHz, 67 Hz Tone, +1 MHz offset, FM, N3TWT **South Mountain Radio Association** net, Mt. Holly Springs.

TUESDAYS

- ◆ 1900: @146.970 MHz, 123.0 Hz Tone, FM, W3HZU **Keystone VHF Club Digital Net**.
- ◆ 2000: @147.315 MHz, 82.5 Hz Tone, FM, K3LV, **Lebanon Valley Society of Radio Amateurs**, Emergency Net.
- ◆ 2100: @145.230 MHz, 114.8 Hz Tone, FM, K3IR **Southern Pennsylvania Radio Club** net.

WEDNESDAYS

- ◆ **1900: @146.760 MHz, 100.0 Hz Tone, FM, Harrisburg Radio Amateurs Club Information net, W3UU (except second Wednesdays - meeting night).**
- ◆ 1930: @146.865 MHz, 123.0 Hz Tone, FM, Red Lion, W3ZGD, **Hilltop Transmitter Association** "Spikes and Frogs" railroad hobbyist net.
- ◆ 2000: 28.400 MHz, simplex net, USB, **Cumberland Amateur Radio Club** (except 3rd Wednesday)
- ◆ 2000: @145.210 MHz, 123.0 Hz Tone; FM, KA3TKW **Shingara Digi Trivia** net.
- ◆ 2100: @145.110 MHz, 131.8 Hz Tone, FM, W3ND, **Central Pennsylvania SkyWarn™** net

THURSDAYS

- ◆ 2030: @145.270 MHz, 74.4 Hz Tone, FM, N3TWT, FM Allstar **Echolink** net.
- ◆ 2100: @145.390 MHz, 118.8 Hz Tone, FM, W3AD **Lancaster Transmitting Society** net.

FRIDAYS

SATURDAYS

- ◆ 2030: 146.580 MHz, simplex, FM, Lancaster County.

SUNDAYS

- ◆ 0730: 3.583 MHz, PA-NBEMS, Thor22 and MFSK32.
- ◆ 0800: 3.9935 MHz, **PEMA statewide Auxiliary Communication Service**, LSB. First Sunday of the month only.
- ◆ 0830: 3.9935 MHz, **Central Pennsylvania Auxiliary Communication Service**, LSB.
- ◆ 1900: 146.490 MHz, simplex net, FM, **Cumberland Amateur Radio Club**
- ◆ 2000: @146.640 MHz. 85.5 Hz Tone, FM, AA3RG **Appalachian Amateur Radio Group** net.
- ◆ 2000: @145.210 MHz, 123.0 Hz Tone; FM, KA3TKW **Shingara Tech** net.
- ◆ 2030: @ 147.120 MHz. 100.0 Hz Tone; FM, W3ACH **Cumberland Valley Amateur Radio Club** net.
- ◆ 2100: www.w3nd.org **Central PA Repeater Association DMR** net.

DAILY

- ◆ 1700: 3.918 MHz, LSB, Eastern PA Traffic Net.
- ◆ 1900: 3.585 MHz, CW, The Dave Heller K3TX Memorial **Pennsylvania Traffic Net (PTN)**.
- ◆ 1945: @147.015 MHz, 118.8 Hz Tone, FM, W3RRR **Lancaster County Welfare Net; Red Rose Repeater Association**.

® = repeater. Members: Add or update your favorite regional net!

LICENSE TESTING: HRAC LAUREL VE

Affiliated with the Laurel Volunteer Examiners (VE), HRAC conducts testing in **February, April, June, August, October, December**, and other announced times. Sessions begin at 0900L at the announced location. Tim Lehman is the Team Leader.



We require:

- ◆ pre-registration for exams to ensure that we have the level of staffing necessary to conduct an exam.
- ◆ your FCC Federal Registration Number (FRN).
- ◆ a valid email address *in advance* of registering for an upcoming exam.

Registration form and information is at the club's website: www.w3uu.org/license-exams/. (Registrations can be made online up to the Friday before test date **by end of business day**.)

Testing is FREE*

**The next test session is
Saturday, 21 October, 2023, at:
Harrisburg Vietnam Veterans
of America, 8000 Derry St.,
Harrisburg, PA
promptly beginning at 0900L.**

**Laurel VE Testing is FREE; however, you are responsible for applicable fees to the FCC. "While applicants for a new license will need to pay the \$35 FCC application fee, there will be no FCC charge for future upgrades and administrative updates, such as a change of mailing or email address. Most current licensees, therefore, will not be charged the new FCC application fee until they renew their license or apply for a new vanity call sign." — ARRL, 4/4/2022.*

August 2023 test results:

We administered two tests: one new Technician and one upgrade to Extra (pending FCC approval and applicable fees paid).

A "Job Well Done" to the VEs who made it all happen:

**Steven, KA3PDQ
Curt, K3URT
George, AC3EA
Rick, K2RBT**

**Frank, KB3PQT
Tim, W4NKC
Alex, KC3SXJ**

W3UU - Harrisburg Radio Amateurs' Club OktoberFest

Saturday October 28th, 2023



OKTOBERFEST

Electronics Expo and Hamfest



**Vietnam Veterans of
America 8000 Derry Street
Harrisburg, PA 17111**

7:00 am to 11:00 am

- 🎃 Admission **\$5.00** per person
- 🎃 Sellers can **tailgate in parking lot or have table(s) inside;**
- 🎃 **Tables inside - \$5.00 each.**
- 🎃 **Tailgate spot - \$5.00 each.**
- 🎃 DXCC/WAS/VUCC QSL card checking on site
- 🎃 Coffee and snacks available

No reserved table space.

**Unloading can be done at the main doors,
and then move vehicle to parking area.**



For further information contact:

**Terry Snyder
717-979-9515
PO BOX 355
Halifax, PA 17032
Wb3BKN1@Gmail.com**

Web Site: www.w3uu.org



Save the Date! – W3UU WinterFest is January 13, 2024

W3UU The Harrisburg Radio Amateurs Club, Inc.
President – Terry [WB3BKN], Vice-President – Chuck [KA1YSR]



MINUTES OF THE September 13, 2023 MEETING

MEETING CALL TO ORDER: The Wednesday, September 13, 2023, meeting of the Harrisburg Radio Amateurs Club, Inc. was called to order at 1832L by the President, Terry [WB3BKN], at the Vietnam Veterans Association Building, 8000 Derry St, Harrisburg, PA 17111. Due to the continuing COVID-19 pandemic, those in attendance took the recommended precautions.

INTRODUCTIONS BY NAME & CALL SIGN: 13 individuals were present and introduced themselves briefly.

SECRETARY'S REPORT: August 2023 Minutes. Opened for comments, questions, and corrections. Motion to Accept the August 2023 Secretary's Report as published in the September 2023 Newsletter by Paul [KA3SGY]. Curt [K3URT] seconded the motion; the attending membership approved the Meeting Minutes by voice vote.

TREASURER'S REPORT: Frank [K3FXA] presented the Treasurer's Report for August 2023. Motion to Accept the Treasurer's Reports by Chuck [KA1YSR]. Paul [KA3SGY] seconded the motion; the attending membership approved the Treasurer's Report by voice vote.

LICENSE TRUSTEE REPORT: Terry [WB3BKN] reported that there has been no news of complaints filed with the FCC. The club is looking for a new License Trustee, please let a Club Officer know if you are interested.

EQUIPMENT TRUSTEE REPORT: Terry [WB3BKN] reported that organization and cataloguing of equipment in the trailer is almost finished and as the weather gets better that will continue. Next up is organization and equipment inventory of the storage unit. Because of the amount of space we need, the club will be moving into a larger unit at the storage place. The club has also sold both of the older power supplies in the trailer and has purchased a Manual Tuner for the Go Kit. Please contact Terry [WB3BKN] to volunteer to help – announcement coming for a work party.

LAUREL VE COMMITTEE: Lead VE Tim [W4NKC] reported that the next testing date is Saturday, October 21, 2023 at 0900L and that individuals must register by end-of-day the Friday before. Please arrive by 0830L in order to get checked in so that testing can start promptly at 0900L. The testing location is the Vietnam Veterans Association Building, 8000 Derry St, Harrisburg, PA 17111.

REPEATER COMMITTEE: Terry [WB3BKN] reported that there are no changes or new developments with the W3UU repeater.

MEMBERSHIP COMMITTEE: Membership Chair Tim [W4NKC] reported that there are no changes to membership numbers from last month – 68 current members with 46 being ARRL members (67.6%). With more than 50% of our members also being ARRL members, we remain an ARRL Affiliated Club. Reminder to renew your memberships for 2023 if you have not already done so.

NEWSLETTER COMMITTEE: Curt [K3URT] reported that the next newsletter article deadline is by the close of business, Wednesday, October 4, 2023. Please send newsletter articles to newsletter@w3uu.org.

WEB PAGE COMMITTEE: No report from the web committee this month.

EMERGENCY COMMUNICATIONS – Robert [K3RTS] reported the following via email and net to the Dauphin County ARES / RACES group:

– Contact ares.harrisburgpa@gmail.com to be added to the e-mail list for updates and announcements.

– Dauphin County ARES / RACES Net meets every Monday at 1900L on the 145.110 repeater (Ellendale Forge, W3ND). All are welcome to participate in the Net.

– In-Person meetings are on the fourth Thursday of the month. Our next in-person meeting is 1900L on Thursday, September 28, 2023 at the Lower Paxton Township Building, 425 Prince St, Harrisburg.

– Swatara Township Hero Run 5k – November 5, 2023.

ELMER TIME: Elmer Time Coordinator, Steve [KC3VPJ] is looking for topics that we can match up with our experienced HAMS to present on. We had 13 people attend tonight's Elmer Time. Glen [K3SWZ] had a great presentation about the PA QSO Party October 14-15. We reviewed some of the history about the PA QSO Party, Glen's experiences participating, different ways of scoring, and a look at some of the prizes that are awarded.

UPCOMING HAMFESTS: The next Hamfest for the club (and the last Hamfest for 2023) will be the October Hamfest on October 28, 2023. We will be starting off 2024 with the Winter Hamfest on January 13, 2024. More details to follow. Please contact Terry [WB3BKN] to volunteer.

OLD BUSINESS: None Reported.

NEW BUSINESS: None Reported.

FOR THE GOOD OF THE CLUB: None Reported.

ADJOURNMENT – A motion to adjourn by Chuck [KA1YSR] and seconded by Paul [KA3SGY]. The meeting closed at 1857L.

RESPECTFULLY SUBMITTED by Frank Aponte [K3FXA], Secretary.

THE MINUTES OF THE MEETING is a document of HRAC, Inc. Therefore, all content is unabridged from the original. Corrections to the Minutes are made at the next club meeting by a membership vote with approval/disapproval.

FCC club station license rule Title 47, Section 97.5: "The club must be composed of at least four persons and must have a name, a document of organization, management, and a primary purpose devoted to amateur service activities consistent with this part." In addition, the document of organization must be kept in the club's records and made available to the FCC upon request.

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...is NOT going out of business.

The website, www.hamradiolicenseexam.com will continue according to owner, John, W1AI in an email to alumni.

Several organizations have expressed interest in buying the site and a decision will be made soon. The site continues to operate, uninterrupted.

“Learn not memorize!”

— email, 12 September 2023, newsletter, Fall 2023, “The Sparky Examiner.”

Amateurs in Belgium get 8-meter band

Belgium have been given privileges on between 40.660 and 40.690 MHz. Operators in South Africa, Slovenia and Ireland already have access. The regulator, Belgian Institute for Postal Services (BIPT), informed the Royal Belgian Amateur Radio Union (UBA) that amateurs must be holders of an operating certificate (HAREC):

- ERP limited to 5W;
- The transmission modes are restrict to A1A, F3E, J2D, J2B and J3E;
- The holder shall keep a logbook stating the date, the start and end time in UTC, the call sign of the station worked, the used frequency, the transmission mode and power.

News, about News:

Your quasi-farmer W3UU editor has been busy canning the land's bounty in September as harvest season is upon us. So his research time has been limited. How about some suggestions from you on what type of articles you would like to see in the future? How about your HOA experiences, solutions, and suggestions (names and call signs will be withheld). Nearly 90% of new housing restricts antennas for amateurs — a big issue for those who want to operate on HF bands with decent antennas.

Tentatively upcoming: for November, the Christmas Wish List for those looking for new toys under the Yule Tree.

Contact: newsletter@w3uu.org



Thursday, September 21, 2023, marked 50 years since the ARRL Foundation was formed. As a partner with ARRL, the ARRL Foundation stewards philanthropic support for amateur radio through scholarships, club grants, and other programs to ensure a strong and vibrant future for the avocation.

The total assets of the nonprofit entity measured nearly \$8M at its most recent annual audit, but it grew from humble beginnings. In September 1973, several members of the ARRL Board of Directors worked to establish the charity. Larry Shima, W0PAN, was the Director of the ARRL Dakota Division at the time and did a lot of work to get the Foundation started. Shima is very pleased with the Foundation's success,

stating, “We started off with \$1,000, and just look at it now!”

That generous support will have a tangible reach. *More than 100 scholarships, ranging from \$500 to \$25,000, will be awarded in 2024.* Thank you to the many donors for making this work possible, and congratulations to the numerous scholarship recipients who have benefited from their generosity.

To learn more about the ARRL Foundation, please visit the Foundation website at <http://www.arrl.org/the-arrl-foundation>. To learn how to make amateur radio a part of your charitable giving, contact the ARRL Development Office at <http://www.arrl.org/contact-us>

Did You Know?

Pennsylvania has 3.2% of the nations licensed amateur radio operators:

- 276.....Novice
- 10,674.....Technician
- 6,349.....General
- 1,307.....Advanced
- 5,575.....Extra

Total:.....24,181.

— www.arrl.org/fcc-license-counts as of 2 October 2023.

ARRL Eastern Pennsylvania (EPA) Section
epa-arrl.org
Bob Wilson, W3BIG,
 Section Manager

The Section consists of the counties of Adams, Berks, Bradford, Bucks, Carbon, Chester, Columbia, Cumberland, Dauphin, Delaware, Juniata, Lackawanna, Lancaster, Lebanon, Lehigh, Luzerne, Lycoming, Monroe, Montgomery, Montour, Northampton, Northumberland, Perry, Philadelphia, Pike, Schuylkill, Snyder, Sullivan, Susquehanna, Tioga, Union, Wayne, Wyoming, York.

ARRL Atlantic Division
www.atldiv.org
Bob Framiglio, K3RE, Director

The division consists of ARRL Sections Delaware, Maryland/DC, Southern New Jersey, Western Pennsylvania, Eastern Pennsylvania, Northern New York, and Western New York.

SWAP & SHOP SPOT

Per the affirmation of the membership, June 2021 meeting, members may post, one-time non-commercial advertisement of items relating to amateur radio, computers, and electronics. “Wanted” advertisements are permitted. Submission of photos are strongly encouraged.

Also, please see posts on the HRAC website and FaceBook™.

HRAC is not responsible for any typographical or other errors. While we endeavor to connect interested parties, all transactions are made exclusively between the buyer and seller. HRAC disclaims all responsibility for any issues arising out of the use of, or reliance upon, this information.

US Amateur Radio Bands

Operator license classes: **E** = Amateur Extra **A** = Advanced **G** = General **T** = Technician **N** = Novice
 CW operation is permitted throughout all amateur bands. Except as noted, all frequencies are in megahertz (MHz).

= RTTY, data, phone, image
 = USB phone, RTTY, data and CW
 = RTTY and data
 = phone and image
 = SSB phone
 = CW only

LF – Low Frequency band

2200 Meters (135 kHz) E,A,G
1 W EIRP maximum



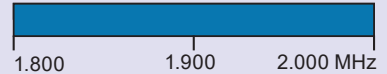
Amateurs wishing to operate on **2200 or 630 meters** must first register with the Utilities Technology Council online at <https://utc.org/plc-database-amateur-notification-process/>. You need only register once for each band.

MF – Medium Frequency bands

630 Meters (472 kHz) E,A,G
5 W EIRP max, except in Alaska within 496 miles of Russia where the limit is 1 W EIRP

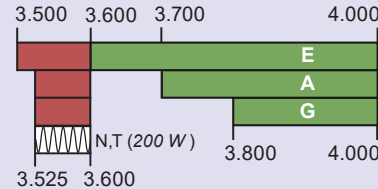


160 Meters (1.8 MHz) E,A,G

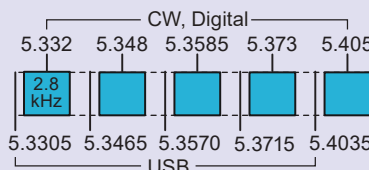


HF – High Frequency bands

80 Meters (3.5 MHz) E,A,G,T,N

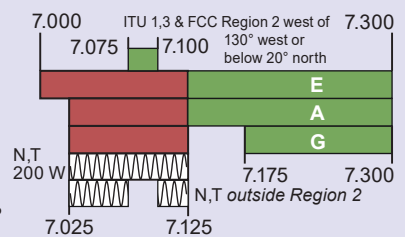


60 Meters (5.3 MHz) E, A, G (100 W)



General, Advanced, and Extra licensees may operate on a secondary basis with a maximum ERP of 100 W (relative to a half-wave dipole antenna).

40 Meters (7 MHz) E,A,G,T,N



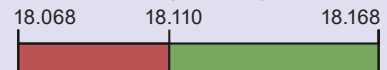
30 Meters (10.1 MHz) E,A,G



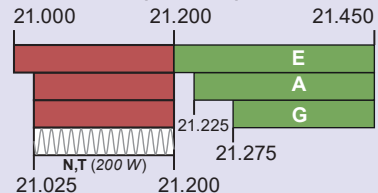
20 Meters (14 MHz) E,A,G



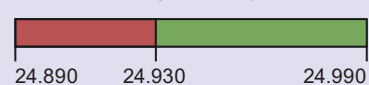
17 Meters (18 MHz) E,A,G



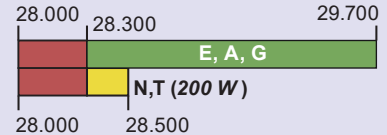
15 Meters (21 MHz) E,A,G,T,N



12 Meters (24 MHz) E,A,G

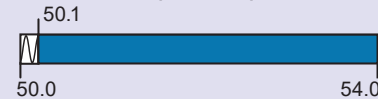


10 Meters (28 MHz) E,A,G,T,N

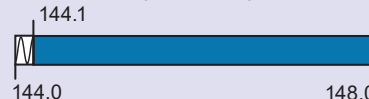


VHF – Very High Frequency bands

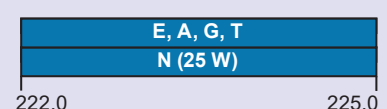
6 Meters (50 MHz) E,A,G,T



2 Meters (144 MHz) E,A,G,T

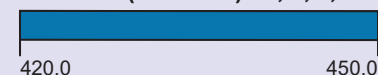


1.25 Meters (222 MHz) E,A,G,T,N

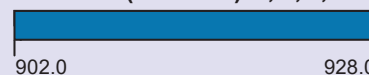


UHF – Ultra High Frequency bands

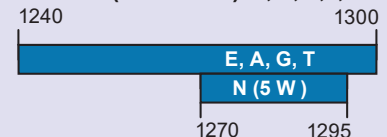
70 cm (420 MHz) E,A,G,T



33 cm (902 MHz) E,A,G,T



23 cm (1240 MHz) E,A,G,T,N



SHF&EHF – Super and Extremely High Frequency bands

All licensees except Novices are authorized all modes on the following frequencies:

2300-2310 MHz	3400-3450 MHz	10.0-10.5 GHz	47.0-47.2 GHz	122.25-123.0 GHz	241-250 GHz
2390-2450 MHz	5650-5925 MHz	24.0-24.25 GHz	76.0-81.0 GHz	134-141 GHz	All above 275 GHz

See www.arrl.org/band-plan for detailed band plans.

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 OTAbands rev. 2/10/2023

CONTESTING et al



The **Solar Eclipse QSO Party** (SEQP) is an opportunity for amateur radio operators to operate during the October 2023 and April 2024 eclipses before, during, and after they pass over North America. Using various modes (CW, voice, and digital), two-way transmissions (QSOs) made during the SEQP will contribute to scientific studies focusing on the ionosphere's reaction to the eclipse. The studies should lead to a better understanding of the interactions between the Sun, the ionosphere, and radio wave propagation. That research should benefit hams, professional broadcasters, satellite operators, and other radio spectrum users.

<https://hamsci.org/contest-info>

When? 14 October, 1200-2200 UTC. (reoccurs on 8 April 2024).

Rules: <https://hamsci.org/node/677>

Also see the **Gladstone Signal Spotting Challenge** at the same time. Amateur radio operators and short wave listeners will be operating beacons and setting up receiving sites using WSPR, FST4W, PSK31, FT8 and Morse Code (CW).

<https://hamsci.org/gssc-faqs>

For more space weather:

www.solarham.net/

<https://spaceweather.com/>

QSL Bureau, US 3rd Call Area:

The National Capitol DX Association is the managing organization — Jack Ference, W3KX, W3 Incoming QSL Bureau Manager. Address:

W3 Incoming QSL Bureau:
NCDXA

PO Box 190
Glenelg, MD 21737-0190

IMPORTANT: Please go to the NCDXA's website to identify who specifically is your card sorter, and for additional information!

HELL-FEST — The Contest from Hell

<https://hellfest.digital/rules/>

Got **fdigi** in your digital suite of software? Feld Hellschreiber is a unique mode everyone should try at least once.

CONTEST RULES:

All contacts must be made using Feld-Hell mode.

All contacts must be made within the contact window: Friday, **13th October** at 2 p.m. EDT until Saturday, 14th October at 2 a.m. EDT (1800 UTC 2023-10-13 until 0600 UTC 2023-10-14).

All contacts must be made within the amateur radio spectrum.

Spotting is encouraged; excessive self spotting is discouraged.

Operators are encouraged to operate only in the following bands/windows:

3580-3600 kHz 7080-7100 kHz,
14080-14100 kHz 21080-21100 kHz
28080-28100 kHz as to not cause interference with normal FT8, FT4 and CW operations.

Scoring and Multipliers:

Each contact is worth 1 point. Each American state and Canadian province may be worked for a band point once per band. Each DXCC may be worked for a band point once per band.

QRP <=10W is a x3 multiplier

Barefoot <100W is a x2 multiplier.

QRO <=1500W is a x1 multiplier.

Pts = (QSOs) * (States + Provinces + DXCC) * Power Mult

Exchange: Call + (State, Province, or DX) + Power Class. i.e. K3URT PA BARE

Bonus points:

Using a radio that physically prints out Hell: 500 points.

Contacting any bonus station (Stations TBA): 20 points each.

Operating in costume (We want photos!): 100 points.

Log Submissions: send to submissions@hellfest.digital Logs should be in ADIF or Cabrillo format. Indicate any bonuses and multipliers in body of email.

Questions? Comments? Get in touch: info@hellfest.digital.

Learn more about Feld-Hellschreiber at Feld Hell Club and WB4IUY.

Contest Calendar **October:**

www.contestcalendar.com/contestcal.html

Popular for the month:

- Geez... take your pick from 149, but the **Pennsylvania QSO Party** is a big one! (14-15; see <https://www.paqso.org/>)

◆ **ARRL Contest Calendar:** www.arrl.org/contest-calendar

◆ **One-By-One special events (100 calls):** www.1x1callsigns.org

Popular for the month:

- California QSO Party, 8-9th; 20 calls issued.
- Eisenhower Birthday, 14th; 11 calls issued.
- Fire Prevention Week, 14th; 10 calls issued.
- Boy Scouts of America Jamboree on the Air, (JOTA) 21-22; 31 calls issued.

◆ **State QSO Parties (7):** www.contestcalendar.com/stateparties.html

- **Pennsylvania QSO Party** is a big one! (October 14-15; see www.paqso.org/)

State QSO Party Challenge: stateqsoparty.com

◆ **Contester Scores:** www.3830scores.com/index.php

◆ **POTA:** parksiontheair.com

◆ **SOTA:** www.sota.org.uk

◆ **VOTA:** vota.arrl.org/

◆ **WRTC (World Radiosport Team Championship):** wrtc.info/

◆ **The World Amateur Radio Contesting Association (WARCA)** published its annual ranking of all active international contesters. The full ranking table for 2023 is available at: warca.org/22-23

◆ **DX news.com**

NOTE: by worldwide "gentleman's agreement," there is **never** any contesting on: 60, 30, 17, and 12 meter bands!

MEMBERSHIP APPLICATION or RENEWAL FORM



MAIL TO:

Tim Lehman (W4NKC)
PO Box 453
Hummelstown, PA 17036-0453
717-982-8550

— Make checks payable to **HRAC** —

YOU CAN ALSO USE PayPal for payment of dues. The club's account is: HRACW3UU@GMAIL.COM The payee will appear as Dave Dormer. If using PayPal, please list the call sign(s) for which you are paying dues and the number of years you are paying in the "note" section of the payment page. Also, if there are any changes to your personal information please either put it in the note section or email the updates to: W4NKC.HV@gmail.com

Membership per year is: \$15.00, \$7.50 if over 65.

Family Membership per year is \$25.00 (Hams must reside in the same household.)

— Membership end December 31st of the year. —

NAME _____ CALL _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ E-MAIL* _____

ARRL Member? Y N YEAR FIRST LICENSED: _____

SIGNATURE _____ Date _____

I agree to abide by the by-laws and guidelines of the membership of the **Harrisburg Radio Amateur's Club, Inc.** and the use of its repeater, W3UU.

If you recently obtained your first license through our Harrisburg Volunteer Examiner Team, bring your application and CSCE to a club meeting and we will waive the membership dues for your first year of membership!

* **PLEASE NOTE:** the newsletter is available in portable document format (PDF) only, **via email**, so a valid, updated email address is important!

Join the Gang!