



W3UU NEWSLETTER

— AUGUST 2023 —

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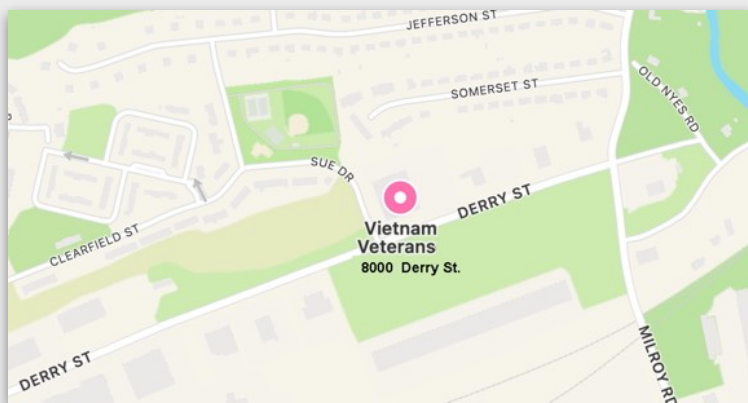
Tim Lehman, W4NKC
w4nkc.hv@gmail.com

QST:

NEXT MEETING is
WEDNESDAY, 9TH
AUGUST, 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: How to assemble a GO-KIT for
emergencies or portable service.





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:

August 9th, club meeting.
 19th, license testing (see page 4).
September 13th, club meeting.
October 11th, club meeting.
 21st, license testing (see page 4).
 28th, **OctoberFest**.
November 8th, club meeting.
December 13th, club meeting ELECTIONS; cookie exchange.
 16th, license testing (see page 4).
January 2024 6th, **WinterFest**
 10th, club meeting.
February 14th, club meeting
 17th, 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

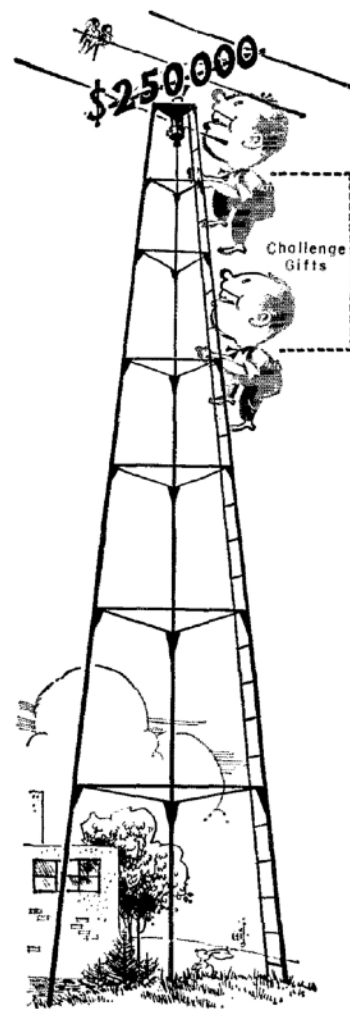
FaceBook: www.facebook.com/Harrisburg-Radio-Amateurs-Club-208171495915056/

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Please NOTE: underlined words in the newsletter are "hot" linked to emails and external websites. HRAC is not responsible for their content or performance. URL's were verified a few days prior to publication.

HAM HISTORY —60 years ago—



ARRL moved to his present location, 225 Main Street, Newington, Connecticut. — QST, August 1963, page 9.

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 and amateurs, 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.

Providing amateurs with experience, net control is restricted to club members. By serving as Net Control, you will gain valuable experience with this type of radio operation and offer assistance to the club and its membership.

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.

—YOU WILL BE A CONTROLLER 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 there are 66 members and HRAC retains its affiliation with ARRL — unchanged.

★ ELMER TIME coordinator Steve, KC3VPJ, is looking for folks to step forward to inform and educate. No experience is necessary!

Contact: steve7shoe@gmail.com

★ NATIONAL NIGHT OUT.

- Keith, W3KB, participated in the National Night Out event, Tuesday, 2 August, as Commander, American Legion Post 43, in Camp Hill.
- Many club members make up the Dauphin County ARES/RACES

and they participated in the Swatara Township event (see page 5).

★ It's summer — other priorities and activities take over our amateur radio activities, but if you have news, accomplishments, accolades, small or large, send them to your newsletter editor!



— Phil Gildersleeve, SK W1CJD, (1908-1966)

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.

QUA HRAC?

Send to: newsletter@w3uu.org

Deadline for next newsletter submissions is by end of business day, Wednesday, 6 September, 2023.

ARRL Eastern Pennsylvania 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, K3RF, Director
The division consists of ARRL Sections Delaware, Maryland/DC, Southern New Jersey, Western Pennsylvania, Eastern Pennsylvania, Northern New York, and Western New York.

Did You Know?

Pennsylvania has: 275 Novice; 10,713 Technician; 6,347 General; 1,317 Advanced; and 5,561 Extra licensed amateur radio operators? Total: 24,227. — www.arrl.org/fcc-license-counts as of 1 August 2023.

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, 19 August, 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.*

June 2023 test results:

We administered four tests — all passed their upgrades (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**

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

EMCOMM:



Dauphin County ARES/RACES participated in the 40th National Night Out at Vanatta Park, Swatara Township, Dauphin County, August 1st. The group had lots of visitors and questions! Photo: Bob, K3RTS, Chuck, KA1SYR, and Frank, K3FXA, (not pictured, Curt, K3URT).

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, **24 August** 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 (PL 131.8).
- ☑ **Facebook:** www.facebook.com/profile.php?id=100067020090800
- ☑ **YouTube channel:** www.youtube.com/@dauphincountyares-races1195

Centre County PA ARES/ACS/RACES is looking for public service volunteers for this season. Review www.aresracescentrecountypa.com/?p=1117 or contact Carmine, K3CWP at k3cwp@arrl.net

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

Help Needed:

"I am reaching out to you today to extend an invitation to volunteer for the upcoming **Eastern States 100 Trail Race**, taking place on **August 12th and 13th, 2023**. We are currently seeking enthusiastic individuals to assist with communications support during the event.

As an integral part of the race organization, we rely on dedicated vol-

unteers like you to ensure the smooth flow of communication throughout the race course. Your participation as an Amateur Radio Operator at one of the designated Aid Stations (AS) will greatly contribute to the safety and success of the event.

Currently, we have an immediate need to fill the following positions:

1. AS-14: We require three volunteers to assist with communication and support at this Aid Station.
2. AS-15: We need one volunteer to handle communication responsibilities at this Aid Station.
3. AS-2 and AS-11: We also have vacancies at these Aid Stations. If you are unable to fill the positions at AS-14 and AS-15, please consider assisting at one of these locations.

To facilitate effective communication
(continued on page 9)

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



MINUTES OF THE July 12, 2023 MEETING

MEETING CALL TO ORDER:

The Wednesday, July 12, 2023, meeting of the Harrisburg Radio Amateur's Club, Inc. was called to order at 1838L 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: 8 individuals were present and introduced themselves briefly.

SECRETARY'S REPORT: June 2023 Minutes. Opened for comments, questions, and corrections. Motion to Accept the June 2023 Secretary's Report as published in the July 2023 Newsletter by Tim [W4NKC]. Paul [KA3SGY] seconded the motion; the attending membership approved the Meeting Minutes by voice vote.

TREASURER'S REPORT: Frank [K3FXA] was unable to attend tonight's meeting but provided the Treasurer's Report for June 2023. Motion to Accept the Treasurer's Reports by Paul [KA3SGY]. Curt [K3URT] 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 organisation 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. Those in attendance discussed upgrades to the radio power supplies and selling off extra equipment that is no longer in use via the club swap and shop. Please contact Terry [WB3BKN] to volunteer to help.

LAUREL VE COMMITTEE:

Lead VE Tim [W4NKC] reported that the next testing date is Saturday, August 19, 2023 at 0900L and that individuals must register by end-of-day the Friday before. 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 - 66 current members with 45 being ARRL members (68.2%). 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, August 2, 2023. Please send newsletter articles to newsletter@w3uu.org

WEB PAGE COMMITTEE: No Report this month.

EMERGENCY COMMUNICATIONS

– Robert [K3RTS] reported the following via email and net to the Dauphin Country 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, 27 July 2023 at the Lower Paxton Township Building, 425 Prince St, Harrisburg.

– Winlink Thursdays are back. The next event is August 10.

ELMER TIME: Elmer Time Coordinator, Steve [KC3VPJ] is looking for topics that we can match up with our experienced HAMS to present on. Instead of a formal Elmer Time tonight, those in attendance discussed topics of interest for the future.

FIELD DAY 2023: Field Day Report – See pages 7 & 8 of the HRAC July 2023 Newsletter for more information.

FIRECRACKER HAMFEST

2023: Firecracker Hamfest Report. – See pages 8 & 9 of the HRAC July 2023 Newsletter for more information.

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:

HAM Luncheon on Thursday, July 27, 2023 at noon at Hibachi Buffet Harrisburg located at 5080 Jonestown Rd, Harrisburg, PA 17112. Note that FCC Representatives will be present.

ADJOURNMENT – A motion to adjourn by Curt [K3URT] and seconded by Paul [KA3SGY]. The meeting closed at 2001L.

RESPECTFULLY SUBMITTED

by Frank Aponte [K3FXA], Secretary. Notes taken during meeting by Chuck [KA1YSR].

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.

NEWS • COMMUNIQUE • MESSAGES • DISPATCHES • QST • REPORTS • TALK

The FCC is Coming to Harrisburg

Attention all broadcasters, ham radio operators, GMRS operators, public safety operators and business/commercial two-way radio operators. Four members of the Federal Communications Commission will be addressing the monthly luncheon of ham radio operators in the Harrisburg area.

The luncheon will begin at **11:30 a.m. on Thursday, September 28th** at:

The Hibachi Grill and Buffet

5080 Jonestown Road

Harrisburg, PA 17122

717-671-8818

<https://hibachipa.com/index.html>

This is the same shopping plaza where Hobby Lobby is located.

The FCC will be making a presentation about what their responsibilities are and what our responsibilities are as commercial and amateur radio operators. Scheduled to make presentations for the FCC will be:

Dave Dombrowski	FCC Regional Director
Laura Smith	FCC Legal Department
Al Furlow	FCC Field Engineer
Riley Hollingsworth	FCC - Retired

This will be an excellent opportunity to learn where things stand in the current regulatory and budgetary environment and to have questions about your operations answered.

If you plan to attend, please RSVP to Tom Shingara at 717-421-3034 as soon as you can. Seating is limited and will be on a first come - first served basis.

— Thanks, Glen, K3SWZ

Commercial Interests Petition FCC for High Power Allocation on Shortwave Spectrum

The *ad hoc* group “Shortwave Modernization Coalition” petitioned the Federal Communications Commission (FCC) to allow data communications on multiple bands within the HF 2 - 25 MHz range with up to 20 KW, including in bands immediately adjacent to spectrum allocated to the Amateur Radio Service. This group appears to represent high-speed stock trading interests.

The FCC has assigned it RM-11953. Comments are due by July 31, 2023, and reply comments by August 15.

While the petitioners exclude the amateur bands, high power operations on immediately adjacent bands are proposed.

The ARRL is reviewing the petition.

A copy of the petition can be found in PDF format at: www.fcc.gov/ecfs/document/1042840187330/1.

— ARRL Bulletin 15 ARLB015, 12 July 2023.

Free Hamfest

Free “hamfest” to be held at the Keystone VHF club pavilion, 3650 Deininger Rd., York, PA 17406, Saturday, 19 August 2023, 0800-1200L. www.facebook.com/events/1442918629800746

— Thanks, Glen, K3SWZ

OPINION: Shortwave “Modernization” Coalition (SMC).

I had to chuckle in a few spots as I read all 103 pages of this technical tome (FCC RM-11953). Namely, the science jargon carefully explicated by lawyer-speak justification for potentially shaving off a few nano-seconds of stock trading data that doesn’t interest anyone except this elite group. And, the apparent expense they went to justify the high frequency (HF) grabs between 2-25 MHz. Are they so desperate for air-time that the satellites, the Internet, and landlines are inadequate? SMC advocates “...for fixed, long-distance” non-voice stations (p. 2). The SMC is comprised of seven companies — all Wall Street traders and fellow-travelers.

HF communications have been declining for decades.

I started as an avid SWL in 1966, a ham radio operator by 1994, and I have witnessed the marked decline of commercial and military radio services on the HF bands. Why? Because other communication transmission models have surpassed the use and stability of HF. Yes, many businesses still use HF, but not nearly like 50+ years ago. SMC claims these HF frequencies are a stable “...superior medium for [the] transmission of relatively low-bandwidth data over long distances with minimal delay as compared to other transmission technologies... and underutilized.” (p. 4, 6) Say that when the Solar Flux dumps to 70, and the K-factor is 10 or static noise makes the packets resend repeatedly for verification, or some nefarious entity hi-jacks the frequency and data.

SMC is not in the general interest of the public.

“If adopted, the proposed amendments would enhance market makers’ ability to quickly access real-time financial data and to continue to act in a manner that provides liquidity and helps to improve asset prices, to the benefit of centralized markets and market participants.” (p. 3). And on pages 20-22, SMC states outright that *they are* the public interest. So, are emergency, military, and other commercial services not in the public interest? We don’t count? The only public interest is THEIR interest, serving THEIR special interest.

SMC threatens the ham band edges.

Proposed, non-channelized transmissions edge dangerously close to the Amateur Radio Service (ARS) and Military Auxiliary Radio System (MARS) bands:

- **4.000-4.063** MHz (top end of the 75-meter band);
- **5.005-5.450** MHz (the already shared 60-meter band);
- **10.150-11.175** MHz (top edge of the 30-meter band);
- **14.350-14.990** MHz (top end the 20-meter band);
- **18.030-18.068** and **18.168-18.780** MHz (both ends of the 17-meter band!);
- **20.010-21.000** MHz (low end of the 15-meter band);
- and **23.350-24.890** MHz (low end of the 12-meter band).

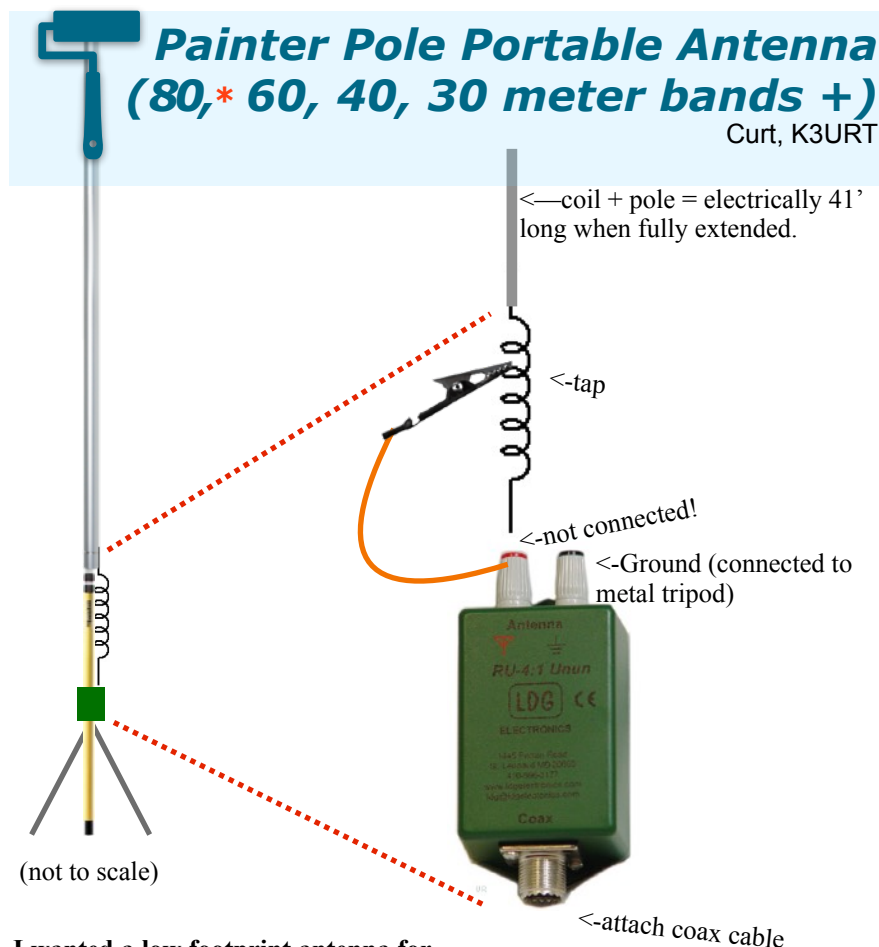
(Appendix E, p. 35).

Okay — they are not *in* the ARS bands, but how about proposed 20 kilowatt transmitters pounding away at 18.168.1 MHz band edge? We know the real-world effect of that.

They came for the VHF spectrum, now they come for HF. — www.fcc.gov/sites/default/files/how_to_comment_on_fcc_proceedings.pdf

— Opinion of Curt, K3URT and not of HRAC.

— 77 years service to the Capitol of Pennsylvania —



I wanted a low footprint antenna for portable operations.

This is nothing new under the sun. There are many designs, configurations and ways to make a very portable antenna. It's up to your ingenuity and junk box! The footprint is about 9 square feet. Additional bands can be made by shortening the aluminum pole extension section. I am not a mechanical person, so anyone can do this better!

*Phone portion of the 80 meter band.

Hardware and Notes:

- 1, Tripod, metal (old Radio Shack model, about 3' tall).
- 1, Coil, 40 turns at 2.5" wide, 10" long, 12 gauge wire (I believe this is a Barker and Williamson Airdux 2004TL. I bought this at a hamfest years ago.)
- 1, Painter's Pole extension, 23.2' (bottom 7' is fiberglass, the rest aluminum); lowes.com "Mr. LongArm" (used here); Home-Depot.com has a similar "Unger" 24'.
- 1, LDG 4:1 Unun (NOT a balun).
- 1, test lead (~12" long) from unun antenna to a position on the coil
- 1, test lead (~ long) from unun ground lug to the metal tripod. Oddly, I did not find a need for long counterpoise after much testing! The 50' coax outer shield did the job.
- ~50' RG58 coax cable.

The coil slips over the pole and is attached to the **non-conductive fiber-**

glass section with plastic ties. The Unun is similarly connected.

Once set up, an analyzer attached to the coax will give various readings depending on where the test lead was attached to the coil. The test lead would read a lower frequency in the lower position down the coil. **You are tuning for resonant frequency for a specific band without an external tuner (and without the internal tuner as well in most cases).**

The coax, for the best results, was stretched out away and the surplus can be coiled up next to the operator's chair. Avoid a human body or anything else largely conductive within 10' around the antenna — otherwise de-tuning will occur and the antenna and the SWR readings will be all over the place. Using **ferrite cores** at the rig end is also **highly suggested**.

Tested with 50 watts FT8 on 40 and 30 meter bands, using a Yaesu FTDX-10 at home QTH; and 2023 HRAC Field Day site, 50 watts, CW on battery.

Results: not a Yagi, but held its own. Breaks down quickly.

Depending upon your tripod, be sure to secure the antenna for safety.

ARRL Membership Fee to Rise in 2024.

"Regular membership dues rise to \$59 a year starting January 1, 2024. Additionally, they have chosen to separate the printed, mailed magazine from regular membership. Members will be able to choose whether they want to add-on a print subscription to any of our magazines including *QST*, *On the Air*, *QEX*, and *NCJ*. All members will continue to have online, digital access to each of these four magazines and the digital archive as part of their regular membership benefits."

— Rick Roderick, K5UR, Member Bulletin 23 July 2023.

"The print subscription to *QST* will be an additional \$25." — Bob Wilson, W3BIG, ARRL EPA Section Manager.

Still a bargain! —ed.

An issue that is rarely considered:

"A local ham club receives requests for help from time to time by families of deceased hams. After a lifetime of collecting gear and building a station, most hams forget that on their passing, the families left behind face a considerable amount of effort to dispose of their collections. Sadly 'dispose' is just what happens to much valuable stuff. Each of us should provide contact information for a ham friend who can step in after a death to suggest what is valuable and what should be moved out wholesale. It is disheartening to see lifetime projects thrown away when family are left with unrecognizable items. Well maintained equipment can sometimes also be of financial benefit to the heirs. Do provide contact information and consider labeling some items as to suggested disposition so that your efforts are not forgotten or squandered. Of note too, do label any borrowed gear so that such can be promptly returned to rightful owners."

— 73 Neil W3ZQI (thanks Glenn, K3SWZ, for forwarding this timely reminder!)

The ARRL provides helpful information on Silent Key Estate Planning:

"Silent Key Estate Planning — A Guide" by Dino Papas, KL0S; <https://tinyurl.com/ycxw665x>

Worksheets: Form and List (ARRL): <https://www.arrl.org/estate-planning-workbook>

EMCOMM: (continued from page 5)

tion, we will be utilizing the Waterville, PA repeater for the event. The frequency details are as follows: 145.350 MHz with a negative offset and PL 167.9.

If you are interested in joining our team and helping us provide a safe and enjoyable experience for the race participants, please sign up at the following link: <https://runsignup.com/Race/Volunteer/PA/Waterville/EasternStates100> Look for the positions labeled "Amateur Radio Operator." We welcome volunteers of all skill levels.

Should you have any questions or require further information, please do not hesitate to reach out to us via email or phone/text at 570-279-1746.

Your contribution as a volunteer will not only make a significant impact on the success of the Eastern States 100 Trail Race but also allow you to be part of a vibrant and supportive community. We greatly appreciate your willingness to assist, and we look forward to welcoming you on board.

Thank you for considering this volunteer opportunity, and we hope to hear from you soon!"

— Travis Best, W3TMB

Need to look up a callsign?

- **QRZ:** <https://www.qrz.com/>
- **HamCall:** <https://hamcall.net/call>
- **QTH:** <https://www.qth.com/call-sign.php>
- **FCC¹:** <https://wireless2.fcc.gov/UlsApp/UlsSearch/searchLicense.jsp>
- **WM7D²:** https://www.wm7d.net/fcc_uls/
- **RadioQTH¹:** <https://www.radio-qth.net/lookup>
- **Amateur Radio License Map¹:** <https://haminfo.tetranz.com/map/>
- **ARRL¹:** <http://www.arrl.org/>
- **Government of Canada³:** [https://apc-cap.ic.gc.ca/pls/apc_anon/query_amat_cs\\$.startup](https://apc-cap.ic.gc.ca/pls/apc_anon/query_amat_cs$.startup)
- **Intercept Radio¹:** <http://intercept-radio.com/ham.php>

¹ USA only.

² USA and Canada.

³ Canada only.

CONTESTING et al**Most Wanted DXCC — top 35 (as of 23 July 2023)**

1. **P5 DPRK** (NORTH KOREA)
2. **BS7H** SCARBOROUGH REEF
3. **CE0X** SAN FELIX IS.
4. **BV9P** PRATAS IS.
5. **KH7K** KURE IS.
6. **KH3** JOHNSTON IS.
7. **FT/G** GLORIOSO IS.
8. **3Y/P** PETER 1 IS.
9. **FT5/X** KERGUELEN IS.
10. **YV0** AVES IS.
11. **3Y/B** BOUVET IS.
12. **ZS8** PRINCE EDWARD & MARION IS.
13. **KH4** MIDWAY IS.
14. **VK0M** MACQUARIE IS.
15. **PY0S** SAINT PETER & PAUL ROCKS
16. **PY0T** TRINDADE & MARTIN VAZ IS.
17. **KP5** DESECHEO IS.
18. **VP8S** SOUTH SANDWICH IS.
19. **KH5** PALMYRA & JARVIS IS.
20. **ZL9** NEW ZEALAND SUB-ANTARCTIC IS.
21. **FK/C** CHESTERFIELD IS.
22. **VK0H** HEARD IS.
23. **EZ** TURKMENISTAN
24. **YK** SYRIA
25. **FT/T** TROMELIN IS.
26. **ZL8** KERMADEC IS.
27. **KH8/S** SWAINS IS.
28. **FT5/W** CROZET IS.
29. **VP8G** SOUTH GEORGIA IS.
30. **XF4** REVILLAGIGEDO
31. **KH1** BAKER HOWLAND IS.
32. **KH9** WAKE IS.
33. **SV/A** MOUNT ATHOS
34. **JD/M** MINAMI TORISHIMA
35. **VK9M** MELLISH REEF

**QSL Bureau,
US 3rd Call Area:**

The National Capitol DX Association 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 your card sorter is, and for additional information!

♦ **Contest Calendar
August 2023:**

www.contestcalendar.com/contestcal.html

Popular for the month:

- 10-10 Summer SSB (5-6th)
- North American QSO Party, CW (5-6th)
- Maryland-DC QSO Party (12-13th)
- Kansas QSO Party (26-27th)

♦ **ARRL Contest Calendar:**
www.arrl.org/contest-calendar♦ **One-By-One special events (86 calls):**

www.1x1callsigns.org

Popular for the month:

- Kansas QSO Party — 44 call signs!

♦ **State QSO Parties (4):**
www.contestcalendar.com/stateparties.html

State QSO Party Challenge:
stateqsoparty.com

♦ **Contester Scores:**
www.3830scores.com/index.php♦ **POTA:** parksontheair.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

**2022 PA QSO Party
Results Published!**

The 2022 results are published at www.paqso.org/party-results.html

Club members receiving certificates (all Single Op Low Power):

- **W3KB, Keith:** *Mixed*, for Cumberland County. And, Keith was #1 in category in state!

Top in *category* in Dauphin County:

- **W4NKC, Tim:** *SSB*. 60th in state.
- **K3URT, Curt:** *Mixed*; 1st for the county; 15th in state.
- **KD3MAD, Mike:** *Portable*. 9th in state.

Congrats to all! The 2023 PA QSO Party is coming up soon: 14-15 October!

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!