

April 2022

The

# Wave Bender



April 2022

Vol. 13.3



## 2022 Officers

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Chris Monske WF8U

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Bob Kramer KE8HHH

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## DAYTON HAMVENTION 2022

MAY 20-22

GREENE COUNTY  
FAIRGROUNDS & EXPO  
CENTER

Board  
Meeting:  
TDB

**Member's  
Meeting:**  
Tuesday April 19<sup>th</sup>  
@  
Davidsons  
Restaurant  
Canfield, OH  
6pm for Dinner  
7pm for Meeting  
**Public Welcome!**

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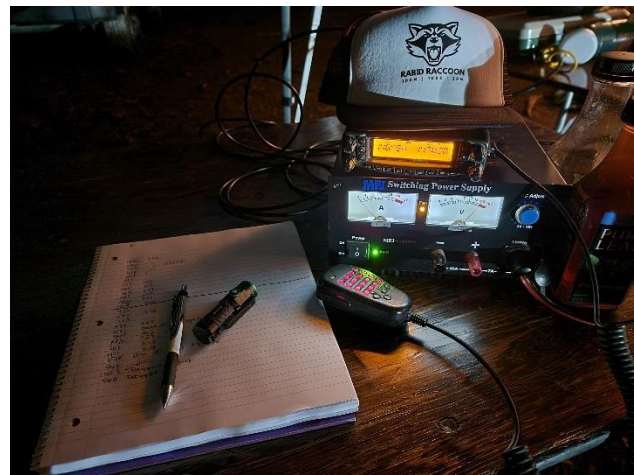
## FROM THE PRESIDENT'S DESK

Hello again, another month in the books.

This time I come to you with some personal radio experiences. KC3GFU and I had seen a post pop up on our club's Facebook page from the Steel City Amateur Radio Club asking for volunteers to assist with a marathon race. Not just any race, but a 24hour 100mile marathon, the Rabid Raccoon 100 in Raccoon Creek State Park. The event is called an ultra-marathon, and the first one of its kind in the area. Now as most of you know Amanda and I work 3<sup>rd</sup> shift and it happens since this is a 24hour event, nobody else wanted to work the 7pm EST to 6am EST shift. Since a fellow club was in need, and the shift being asked for was one we are used to working anyway, we signed up.

After an hour drive to Hookstown, PA we arrived at our assigned location. Upon arriving to the Mineral Springs trail head, we were warmly greeted by AB1A who we were relieving. He stayed and talked to us for a good hour while he tore down his equipment and we set ours up. This race is so massive and in such hilly terrain HT's were unusable. The club provided telescopic masts with dual band J-poles and coax, all we needed was our own mobile radio and power supply.

Now about the hilly terrain, not only were HT's impossible to cover the route, so were repeaters. Our location was in a very narrow valley, just wide enough for a 2-lane road and small parking area. Since repeater coverage was impossible as well, they were using a 2 meter simplex frequency. They had set up their command post on top of a hill in the park,



and the rest of the locations in the valleys were able to work Net control with only 5watts through the club provided J-poles. Communication between locations was sparse as well, we could only hear one other check point from our location. This was my first time ever working a public service event in such difficult terrain, now before you say, "Well we work events in Millcreek Park and its hilly", it has nothing on what we experienced in Raccoon Creek. Some of what I learned from working with another club, is anything can be overcome. Just like we do, their club went out weeks in advance to run the course themselves, trying to figure out what kind of radios and antennas were needed to be used in various locations. However, part way through the night while the temperature dropped and it poured down rain, something happened with the installed club antenna we were using. "Command Post" was unable to hear our station and we were unable to hear them, but I came prepared. I had brought along a telescopic mast

## PRESIDENT'S DESK CONT'D...

and a GP-3 base antenna I was able to put up and be able to maintain contact. They also ran a tactical call net, much the same way we've implemented into our own public service nets. I did find the use of a simplex frequency interesting; I can't remember anytime we've used a simplex frequency for a PS event, it could be something that would work for us in the future.

To close this, I would like to encourage anyone of you to help with PS events, not only in your own county but others as well, we crossed state lines for this one. We are all HAMs and we all share a common goal, so don't be shy, get on the air, go out in the field, meet new people, gain more experience, and as always have fun.

73 de WF8U

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## NWS WILMINGTON OH

### 2022 VIRTUAL SPOTTER TRAINING SCHEDULE



Classes are free, open to the public, and require registration.

Each class lasts about 2 hours and is led by National Weather Service Meteorologists who will discuss techniques and safety for severe weather spotting. Once you attend a class, you will receive instructions for filling out online registration forms to officially become a trained spotter and can report severe weather to your NWS office.

04/18 – 7:00pm

## WRARC ELMER INFO

Steve Fabry KC8SOY	Yaesu FT8900, FT 8800, Mobile	kc8soy@yahoo.com
Russ Williams NR8W	Antennas, Grounding, AC/DC	rwiliams@neo.rr.com
Darrin Cannon N8DMC	Yaesu Radio Programming, License Upgrading/Testing	darrincan@gmail.com
Bill Egan KD8HCQ	Field Day Operating, Wire Antennas, IC-2200, FT-450	popbottle@zoominternet.net
Bob Kramer KE8HHH	Raspberry Pi	snowyowlooo@gmail.com
Dave Slagle N8PPP	QRP	daslagle@zoominternet.net
Chris Monske WF8U	Repeaters, HF Mobile & Portable, Field Radio Programming, Mobile Installs	kd8ely@gmail.com

## APRIL CONTESTS

### 10 – Rookie Roundup



## SWAP N SHOP

Icom 7600 – Good Shape – Comes with LDG M-7600 External Multi-Function Meter and LDG IT-100 External Antenna Tuner. Standard Mic and Manual Included. Power cord, has power poles installed. – \$1200 obo

Sam DiRocco W8SDD

330.716.2127

mondior@zoominternet.net

Have Something **For Sale**?

Looking to **Barter**?

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Shoot us an email and we can advertise for you **HERE!**

afarone926@gmail.com



## HOW TO TALK HAM RADIO TO NON-HAMS

A recent Friday night Elmer's net on the repeater hit on a topic close to my ham heart....how to tell non-hams about the hobby! It was a good discussion, and it got me going on this pet topic.

First, let me explain that it took my husband, and other well meaning hams a couple years to get my interest peaked enough to study for the test. I just didn't "get it". What was the big deal? Why not use CB radio, no test required? What was the point anyway? Just seemed like some complicated walkie talkies to me. Finally, something started to connect in my mind during one of my husband's many speeches about me getting licensed, and I pulled some answers out of him. So, what turned the light bulb on over my head? Listening to the car radio! I believe my exact words were, "Wait, so I would be like HOT 101? Like a station?" Of course, ten seconds later I thought of their periodic callsign use. Ooohhhh, I get it! WHOT is the call sign and 101.1 is the frequency! I know it sounds obvious, but as a non-ham it just wasn't clicking until I related it to something in my frame of reference.



Then I saw the electromagnetic spectrum which I remembered from my 9<sup>th</sup> grade physical science class. I really liked the class, and this grabbed me again. Realizing where the amateur bands were on the spectrum gave me a frame of reference to its purpose. So, cell phones and stuff on one end of the spectrum could get jammed up but ham radio spectrum would work?! Then the practicality hit me. Between those revelations and the cool training to be a SKYWARN spotter, I finally started to study for the tech exam.

Given my mental journey from non-ham to ham, this is how I tend to explain this hobby to non-hams. I think every person is probably different. But I think we hams likely explain it from the post-ham perspective more often than we should. What all you can do with it, accidentally talking a little more lingo than we realize, and showing band plans to people who feel like they are looking at a foreign language.

So, I came up with an analogy to explain this to friends and family who thought I didn't seem the type to "get into ham radio". When cars were invented we didn't throw away bicycles. They are valid forms of practical transportation and good for recreation. If your car breaks down, or there is a traffic jam, or a bridge goes out, you can still use a bike. Traffic in communication is no different. It may be old but not obsolete. Just like a good bike. That tends to help the non-hams make the connection, overcome their preconceived notions, and keep the conversation going. Step two is helping them find the non-ham frame of reference just like I did. And who knows, maybe they will start to study. But the critical lesson for the amateur operator is to remember your pre-ham days, when this was all foreign and intimidating. And who knows if we use our pre-ham mind we may be able to help a few non-hams respond to our explanations with a "QSL".

- Allison KE8SKL

## WRARC IN THE ST. PATRICK'S DAY PARADE!



WRARC participated in their first parade and I would call it a success! The weather was not welcoming to us but we overcame it and overall had a great time. We were able to get the face of our club out to the public in a way we haven't in the past. Members handed out at least 1,000 advertisements along with candy, stickers, and friendly smiles. Russ N8RW stole the show with his good spirit and costume while he keyed CW to the audience from our decorated float. We had great feedback from spectators and other participants; thanking us for our services and even having kids excited that we were "calling the aliens".

I hope we can do this again in the future. There are three key points when it comes to our participation in a parade that I find useful. Parades reach a wide variety of demographics. Since a parade is free and accessible, the barriers of entry for any demographic are lowered. Parades offer an opportunity to market in unconventional ways. They also integrate you further within your community. Our club's presence at a parade is enough to involve us in the community. Parades are a celebratory coming together of community members, and our participation in that automatically ties our club to a celebration of togetherness.

I want to thank President Chris WF8U, Past President Bob N8RCM, Vice President Russ NR8W, Event Coordinator Roy KD8IJF, Trustee Ed KE8NSW, Treasurer Bob KE8HHH, Social Coordinator Maureen KD8NXS, and our guest Karen, for helping to bring this all together and making it happen. I appreciate you all helping to make my vision come to life and especially those of you that braved the cold!

73 KC3GFU Amanda





CORRINE KRAMER KE8MRE

KEVIN STEIN KD8NXR

STEVE FABRY KC8SOY

NOAH KINDL N3DZH

JOHN SOBINOVSKY KE8IDG

## UPCOMING HAMFESTS

04/09 Sixty Sixth Cuyahoga Falls  
Amateur Radio Club Hamfest

Emidio & Sons Party Center

48 E. Bath Rd., Cuyahoga Falls, OH  
44221

Cuyahoga Falls Amateur Radio Club

04/24 Athens Hamfest

Athens Community Center

701 East State St., Athens, OH  
45701

Athens County Amateur Radio  
Association

04/25-04/29 RV Radio Network Spring Rally

Berlin RV Park

5898 OH-39, Millersburg, OH 44654

RV Radio Network

## JOIN US FOR THE WRARC FRIDAY NIGHT NET!

9:00pm Every Friday

W8WRC -145.270 PL 110.9

WRARC Simplex Frequency 146.565

## MVARA NET

Mondays @ 9:00pm – W8QLY Repeater -146.745 (PL 110.9)

## MAHONING COUNTY ARES NETS

2nd Sunday 2:00pm W8QLY Repeater -146.745 (PL 110.9)

4th Sunday 2:00pm W8QLY Repeater 146.745 (PL 110.9)

ARES Thanks MVARA for the use of their Repeater

W8SGT is facilitating The Ohio HF Net every Tuesday @ 7:00pm

The net is run from the State of Ohio EOC on the Ohio ARES Admin Frequency 3875 kHz  
LSB moves to 7240 Khz after 20 min

ALL are welcome to check in.

The Ohio ARES/OES Digital Emergency Net is held every Tuesday @ 8:00pm

Held on 3585 kHz USB

Please note all digital communications are Upper Side Band

<http://ohden.org>

Net Manager Gary NJ8BB







# PUBLIC NOTICE

Federal Communications Commission  
45 L Street NE  
Washington, DC 20554

News Media Information 202 / 418-0500  
Internet: <https://www.fcc.gov>  
TTY: 1-888-835-5322

DA 22-307

Released: March 23, 2022

## EFFECTIVE DATE OF NEW APPLICATION FEE RATES FOR THE WIRELESS TELECOMMUNICATIONS BUREAU MD Docket No. 20-270

On December 23, 2020, the Commission adopted a Report and Order implementing a new application fee schedule which significantly updated the Commission's previous fee schedule.<sup>1</sup> As indicated in the *2020 Application Fee Report and Order*, the new application fee rates will become effective when the Commission's "information technology systems and internal procedures have been updated, and the Commission publishes notice(s) in the Federal Register announcing the effective date of such rules."<sup>2</sup> On July 6, 2021, the Commission announced the new application fee rates for the Office of Engineering and Technology and the Media Bureau would become effective on July 15, 2021,<sup>3</sup> and on December 15, 2021, the Commission announced the new application fee rates for the Wireline Competition Bureau, the Enforcement Bureau, the International Bureau, and CALEA Petitions would become effective on December 15, 2021.<sup>4</sup> This Public Notice announces that the new application fee rates for the Wireless Telecommunications Bureau, codified at 47 CFR § 1.1102, will become effective on **April 19, 2022**.<sup>5</sup> Wireless application fees can be paid through the Commission's Universal Licensing System (ULS) at <https://www.fcc.gov/wireless/universal-licensing-system>.<sup>6</sup>

For further guidance regarding Wireless Telecommunications Bureau application fees, please refer to the Wireless Telecommunications Bureau Fee Filing Guide located at

<sup>1</sup> See *Amendment of the Schedule of Application Fees Set Forth in Sections 1.1102 through 1.1109 of the Commission's Rules*, MD Docket No. 20-270, Report and Order, 35 FCC Red 15089 (2020) (*2020 Application Fee Report and Order*). Pursuant to section 8(b)(1) of the Communications Act of 1934, as amended, the Commission is required to review the application fee schedule in every even-numbered year, adjust the fees to reflect increases or decreases in the Consumer Price Index, and round to the nearest \$5 increment. See 47 U.S.C. § 158(b)(1). In addition to the adjustments required by subsection (b), the Commission shall also, by rule, amend the schedule of application fees established if the Commission determines that the schedule requires amendment so that: (1) such fees reflect increases or decreases in the costs of processing applications at the Commission or (2) such schedule reflects the consolidation or addition of new categories of applications. See 47 U.S.C. § 158(c).

<sup>2</sup> *2020 Application Fee Report and Order* at 15155, para. 201.

<sup>3</sup> See *Effective Date of New Application Fees for the Office of Engineering and Technology and the Media Bureau*, MD Docket No. 20-270, Public Notice, DA 21-747 (OMD 2021).

<sup>4</sup> See *Effective Date of New Application Fees for the Enforcement Bureau, the Wireline Competition Bureau, and the International Bureau*, MD Docket No. 20-270, Public Notice, DA 21-1496 (OMD 2021). Note that, on December 15, 2021, the Commission decommissioned and permanently discontinued its in-house online electronic payment system known as Fee Filer and replaced it with a new payment module contained in the Commission's Registration System (CORES). See *FCC Announces Decommissioning of Fee Filer as Method of Payment and Replacement with New Payment Module within CORES and Decommissioning of the Commission's Red Light Display System and Replacement with a New Module within CORES*, Public Notice (Dec. 1, 2021).

<sup>5</sup> 47 CFR § 1.1102.

<https://www.fcc.gov/licensing-databases/fees/application-processing-fees>. For further information regarding this Public Notice, please contact Roland Helvajian, Program Analyst, Financial Operations, Office of the Managing Director, [Roland.Helvajian@fcc.gov](mailto:Roland.Helvajian@fcc.gov).

-FCC-



**June 24-26**

**Lake Milton – Harry Meshel Picnic Area**

Join us at the park for a weekend of amateur radio activities!

### SCHEDULE OF EVENTS

#### Friday

9am - Setup Begins

6pm - Fox Hunt

#### Saturday

10am - License Testing

1pm - Radiogram Workshop

5pm - Member Potluck Dinner

#### Sunday

12pm - Chinese Auction

Field Day is ham radio's open house. Every June, more than 40,000 hams throughout North America set up temporary transmitting stations in public places to demonstrate ham radio's science, skill and service to our communities and our nation. It combines public service, emergency preparedness, community outreach, and technical skills all in a single event. Field Day has been an annual event since 1933, and remains the most popular event in ham radio.



OPEN TO THE PUBLIC

**License Testing**

-

**On Air Opportunities**

-

**Contesting**

-

**Chinese Auction**

-

**Fox Hunt**

-

**Radiogram Workshop**



## AMATEUR RADIO NEWS FROM AROUND THE WORLD

### Volunteer Monitor Program Cautions against Operating Beyond License Privileges

Many of the Advisory Notices sent out each month by the ARRL [Volunteer Monitor Program](#) go to stations heard operating outside the operator's license privileges. While some may be doing so deliberately, it seems clear that many of these reports reflect a lack of clarity regarding the Part 97 -- Amateur Radio Service rules.

Typical cases often involve operators holding Technician- or General-class amateur licenses being heard on a frequency or band not permitted by their license privileges. Most recent incidents have frequently entailed FT8 digital mode operation by Technician licensees on 20 and 40 meters. Technician licensees do not have any operating privileges on 20 meters, let alone digital privileges, and FT8 is a digital protocol.

Technicians (and Novices) may operate CW between 21.025 and 21.200 MHz on 15 meters, from 7.025 and 7.125 MHz on 40 meters, and from 3.525 to 3.600 MHz on 80 meters, but they do not have *any* digital (data) mode privileges on these bands.

ARRL Volunteer Monitor Program Administrator Riley Hollingsworth, K4ZDH, said licensees who need a refresher course regarding their operating privileges may refer to

Section 97.301 of the rules. ARRL also has a convenient chart on its [website](#) that details privileges available to all license classes, from Novice to Amateur Extra.

As monthly Volunteer Monitor reports indicate, some General-class operators have lost their way on some bands too, and Advisory Notices have gone out to those operating outside of the General-class phone subbands. For example, on 20 meters, Generals may operate phone from 14.225 to 14.350 MHz, but occasionally, General-class operators are heard outside of that subband. On 40 meters, the phone and image subband open to General licensees is 7.175 to 7.300 MHz. Of course, Technician- and General-class licensees may operate CW on any subband on which they have operating privileges, although operation within the CW subbands is preferred by band plan.

On 10 meters, Technicians have RTTY and data privileges -- including FT8 -- from 28.000 to 28.300 MHz, and SSB phone privileges from 28.300 to 28.500 MHz, and may operate on CW over the entire 28.0000 - 28.500 MHz segment. Technicians may enjoy all operating privileges at 50 MHz and above.

The ARRL Volunteer Monitor program is a formal agreement between the FCC and ARRL. Volunteers trained and vetted by ARRL monitor the airwaves and report evidence that may be used to correct errant operation or to recognize exemplary on-air operation.



### Ukraine Maintains Ham Radio Silence in State of Emergency

Radio amateurs in Ukraine appear to be diligently maintaining radio silence as the state of emergency declared there just prior to the Russian military invasion remains in effect. A February 24 decree from President Volodymyr Zelensky included "a ban on the operation amateur radio transmitters for



personal and collective use." The Ukraine Amateur Radio League ([UARL/LRU](#)) reported this past week that it has received many messages of encouragement from the worldwide amateur radio community.

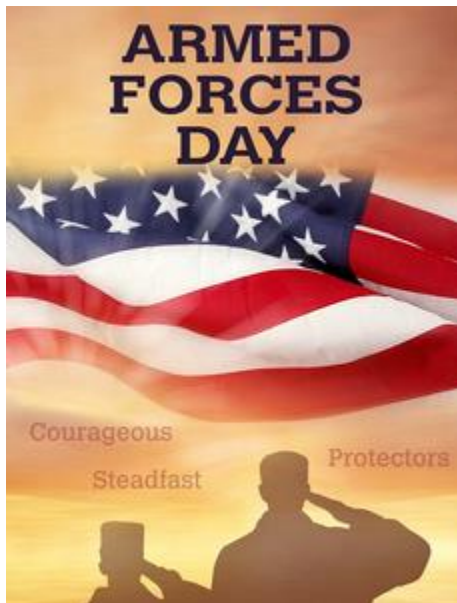
"The LRU informed international amateur radio organizations about Russia's military invasion of Ukraine," said the message from UARL Vice President Anatoly Kirilenko, UT3UY. "To date, there have been many reports from radio amateurs around the world in support of Ukraine."

The International Amateur Radio Union ([IARU](#)) has adopted a neutral stance. "IARU is an apolitical organization focused on promoting and defending amateur radio and the amateur radio services," the IARU said. "The amateur radio service is about self-instruction in communications and friendship between people." IARU Region 1 has said it continues to monitor the development and expect all radio amateurs "to follow their national laws and regulations." IARU Region 1 also re-posted part of an [advisory](#) from the Deutscher Amateur Radio Club HF Committee on February 27. "Any radio amateur currently transmitting from Ukraine is risking his or her life. If you hear a Ukrainian station, do not broadcast its call sign, location, or frequency—whether on the band, in a cluster, or on social media. You may be putting lives at risk." The DARC's overarching advice: "In the current situation, the best we can do is listen."

Ukraine's assigned amateur radio call sign prefixes include EMA - EOZ and the more commonplace URA - UZZ. Some stations with Ukrainian call signs may still be active, since an exception to the amateur radio ban was made for stations in the Donbas region of eastern Ukraine (eastern Donetsk and Luhansk oblasts), which have special legal status owing to Russia's occupation since 2014. -- Thanks to [The Daily DX](#) for some information

## Annual Armed Forces Day Cross-Band Exercise Set for May 14

The 2022 running of the Armed Forces Day (AFD) Cross-Band exercise will be held on May 14, 1300 - 2200 UTC. A complete list of participating stations, modes, frequencies, times, and other details [will be announced](#) on April 1. The event is open to all radio amateurs. Armed Forces Day is May 21, but the AFD



Cross-band Military-Amateur Radio event traditionally takes place 1 week earlier in order to avoid conflicting with Dayton Hamvention®. During the exercise, radio amateurs listen for stations on military operating frequencies and transmit on frequencies in adjacent amateur bands.

Military and amateur stations have taken part in this event for more than 50 years. It's an exercise scenario, designed to include ham radio and government radio operators alike.

Per previous announcements: "The AFD Cross-band Test is a unique opportunity to test two-way communications between military communicators and radio stations in the Amateur Radio Service, as authorized in 47 CFR 97.111. These tests provide opportunities and challenges for radio operators to demonstrate individual technical skills in a tightly controlled exercise scenario that does not impact any public or private communications."

Military stations in various locations will transmit on selected military frequencies and announce the specific ham band frequencies they are monitoring.



An AFD message will be transmitted utilizing the Military Standard (MIL-STD) serial PSK waveform (M110) followed by MIL-STD Wide Shift FSK (850 Hz RTTY), as described in MIL-STD 188-110A/B. The AFD message will also be sent in CW and RTTY.

Full details will be released on April 1.

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### Club of the Year Award

The Highland Amateur Radio Association (HARA), K8HO, an ARRL Special Service Club located in Hillsboro, Ohio, has been named the 2022 Club of the Year. HARA was established in 1977 and serves a small rural population in Highland County, Ohio. As a result of ongoing licensing classes and mentoring sessions, the club reached an all-time high membership in 2021 with 143 members. Since 2015, membership has grown by 86 percent, and the membership is comprised of hams from 10 surrounding counties in southwest Ohio and two states. The club maintains five repeaters within Highland County, of which two are linked to provide a broader footprint. The club hosts a weekly 2-meter and 10-meter net, with an average attendance of 28. There are bi-monthly programs, as well as a monthly gathering called the "Brunch Bunch."



The Highland Amateur Radio Association, 2022 Dayton Hamvention winner of the Club of the Year Award.

The club has an excellent relationship with the local newspaper and leverages that relationship to make the community aware of its events and of the value and importance of amateur radio.

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### Amateur of the Year Award

Jim Simpson, KF8J, of Xenia, Ohio, was named the 2022 Amateur of the Year. First licensed as a teen, Simpson built his first tower in 1966. He worked 39 states, including Hawaii, while living at home with his family. His first shack was in the corner of his dad's garage. Simpson built all his equipment from Heathkit. He upgraded to a General-class license in the late 1970s. He built two towers at his current location in Xenia in 1980, a 100-foot guyed tower for HF antennas and a 55-foot, free-standing tower for satellite communications. Simpson operates on 80 through 10 meters, mostly using voice with some digital operations, as well as on 2 meters and 70 centimeters. Simpson attended his first Dayton Hamvention in 1972. He was a member of the Hamvention committee for several years and was the first to use computers for the annual event to streamline recording data. In 1974, a tornado devastated the city of Xenia, Ohio. In 1975, Simpson saw a way to serve the community, and as a young man, he founded The Xenia Weather Radio Network. He remains active in the organization. Simpson was appointed Second Assistant to the Hamvention General Chair in 1983. In 1984 and 1985, he was appointed Assistant General Chair. He was appointed the Hamvention Chairman on the DARA Board for the 1986 and 1987 Hamvention events. Simpson has served on the Hamvention committee continuously since 1973. During that period, he introduced several technical innovations to the event and remains a senior advisor on the committee. Over many years, he mentored many local hams and has been active in many amateur radio projects in and around Xenia.



Jim Simpson, KF8J, 2022 Dayton Hamvention Award winner of the Amateur of the Year Award.

# APRIL 2022

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1  WRARC NET 9:00p 145.270	2
3	4	5	6	7	8  WRARC NET 9:00pm 145.270	9
10	11	12	13	14	15 Good Friday  WRARC NET 9:00pm 145.270	16
17 Easter 	18	19 General Meeting 7:00p	20 Article Deadline 	21	22 Earth Day  WRARC NET 9:00pm 145.270	23
24	25	26	27	28	29 Arbor Day  WRARC NET 9:00pm 145.270	30