



ARRL Standard



Pray for our
Troops



God Bless America!

QUA/HAMnews

SEPTEMBER
2020

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The Spetember Annual Family Picnic has been canceled.

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P.O. Box 4411, Lexington, Kentucky 40544-4411
Club Station K4KJQ
MARS Station AAV4CAB



Glenn E. Welman/KF4NB

Memorial BBS

145.010 and 145.090

Web Page: <http://www.bluegrassars.org>
E-mail: bluegrassars@hotmail.com

K4KJQ
146.160/.760

ATV Repeater: KY4ATV
Input: 439.250 // Output: 923.250

WA4HBM
147.765/.165

"Ham News" was first published by Bobby Foster, WA4ZSQ, in August, 1972; the parent newsletter, "QUA," was first published in March, 1947

QUICKY NOTES

Accessing the Club's web page: <<http://www.BluegrassARS.org>>.

Telephone Number for the Shack (basement of the Red Cross Building): (859) 231-0974.

Subscribe to ListServ: Send an eMail to: bars-request@lsv.uky.edu; in Subject line type Subscribe plus <your call sign>

Post notes to the Club List Serv: <bars@lsv.uky.edu>.

September General Membership meeting has been cancelled.



Below you will find the Club's Ebay account for the sale of the surplus equipment. Copy the URL into your browser and take a look at the items we have up for auction.

<https://www.ebay.com/sch/bluegrassars/m.html>

QUA/HAMnews

SEPTEMBER 2020

Meeting Notice

Bart Breeding/KB4FEE,
Chair, Newsletter Committee
Bluegrass ARS, Lexington, Kentucky

The general meeting of the Bluegrass Amateur Radio Society, Inc., scheduled for September has been cancelled. This would have been the Annual Family Picnic.

Do you have a topic you would like a program on or a program you would like to present? Do you have a home brewed project you have built? Bring it and show it off! Question? Ask it! Maybe your question isn't one about a Club activity or function, maybe you are having a problem getting some newly acquired equipment set up and operating correctly, or you have an antenna with radiation problems. Regardless of your question, problem, or suggestion, bring it to the Club meeting.

The Club shack is currently closed due to the Covid-19. Bluegrass Amateur Radio Society's ham shack is located in the basement of the Red Cross building at 1450 Newtown Pike Lexington, KY 40511. Entrance is down the steps (look for the BARS banner hung on the railing) at the North Side of the building.

Fayette County ARES Coordinator - Sandy Gragg

The Fayette County ARES net has resumed. Remember the Fayette County ARES net every Tuesday at 8:30 pm on the 146.94 repeater. **We are looking for more folks that would help share in the net control. If you would like to Help, contact Sandy KM4PJU, at 859-699-0035**

NEW MEMBERS

Salvatore Dominianni	KM4PPV
John Fessler	N0FZJ
Terry Roseberry	KO4APO
William J. Roche	KO4DAL
Stephen Thomas	KO4DMU
David Mato-Sergovia	KX4OMJ
Jewell Vest	KO4EPJ

A new net has started, Wednesday evening at 8 pm and Saturday mornings at 9 am. This is a rag chew net and open for all amateurs. The is located on the 146.760 repeater. There is no PL tone. See you on the net.

KY-QRP net has been suspended at this time.

REMINDERS

Over the last year or so, we have had difficulty contacting members. It is the responsibility of each member to update their contact information, phone, address, email or updated license and call sign information. Please contact the treasurer and update your information.

The best way to do this is to give the treasurer a written note with your updated information.

The annual dues run during a calendar year, January to December. If you join during the year, the dues are pro rated based upon when you join.

Also, dues are \$20.00 per year, with a 60-day grace period ending on the last day of February. If you pay for multiple years, you get a discount:

2yrs. is \$38

3 yrs. is \$55

We wish to thank Jim Schings for allowing the club to use his farm for the Annual Field Day.

Fayette County ARES

Coordinator - Sandy Gragg

The Fayette County ARES net has resumed. Remember the Fayette County ARES net every Tuesday at 8:30 pm on the 146.94 repeater.

We are looking for more folks that would help share in the net control. If you would like to Help, contact Sandy KM4PJU, at 859-699-0035

New Rag chew net on Wednesday evening at 8:00 pm and on Saturday morning at 9 am. The net is located on the 146.760 repeater with a negative offset and no PL tone.

SEE YOU THERE!!!

Diplomacy is the art of saying 'Nice doggie' until you can find a rock.

Will Rogers

The Special Election for the open positions of Treasurer and Director-at-Large is complete. The ballots have been counted and the winners are:

Treasurer: Jodie Wells

Director-at-Large: Chris Gay

We wish to thank Harvey Frye and Barry Jackson for counting the ballots.

All thank you to all of the members that voted.

“There are men running governments who shouldn’t be allowed to play with matches. There are men running governments who shouldn’t be allowed to play with matches. There are men running governments who shouldn’t be allowed to play with matches.”

Wll Rogers

“Let us never forget that government is ourselves and not an alien power over us. The ultimate rulers of our democracy are not a President and senators and congressmen and government officials, but the voters of this country.”

Franklin D. Roosevelt

BARS E-BAY SALES AND AUCTION SALES OF SURPLUSSED EQUIPMENT

The BARS Board of Directors has adopted a method for the disposal of all items in our donated equipment inventory through the transfer of ownership by making them available for purchase by open public auctions and sales. We have determined that it is to the optimum benefit of BARS that we try to obtain the maximum amount for each item, or related sets of items, by accepting only the highest value received through as fair, and as equitable, and as impartial a public process as reasonably possible. In this way we endeavor to eliminate any impressions of advantage or disadvantage to anyone or group wishing to obtain by purchase any item or items.

Our process in operation now is to periodically, and more-or-less continuously, move a somewhat small and easily manageable group of equipments, selected to some extent at random, from a storage facility to the BARS room at the Red Cross Building. At the BARS room, the equipment is basically evaluated (maybe even "smoke" tested) to determine a reasonably accurate and reliable description of its condition. Any equipments that we envision may be of utility to the Club are retained for use in the shack or the shop. Those items that are marked for sale through E-Bay are weighed and photographed, and then researched in an effort to determine their histories and current comparative values. After that, the equipment's descriptive file, including our asked and reserve price, is up-loaded to the E-Bay sales website under our "Bluegrassars" account to make our intentions universally known that the equipment is publically available by timed auction or instant fixed-price purchase. In this way we are trying to keep up a simple uninterrupted cycle of listings, purchases, and shipments which will eventually deplete our inventory of donated and surplus items and eliminate our need and the expense for a rented storage facility.

The current (and previous) BARS Bylaws in its Preamble is specific in its intention that "*No part of the resources, and/or property, and /or net earnings of the corporation, if any, shall inure to the individual benefit of, or be distributed to, any of its members, trustees, directors, officers, or other private persons...*". In order to insure our own compliance with our own rules, no offers for purchase of any Club owned items will be considered that are not conducted in an open public venue or setting by the methods currently adopted by BARS. This prevents any perception of preference to any purchaser, including Club members, and provides an element of assurance that the Club realizes a monetary amount that was determined by as fair a market demand value attainable at the time of the sale. We generally consider this approach is of the overall advantage to BARS, its members, as well as any others involved in these types of financial transactions with the Club. In addition, the Club has established a reputation through E-Bay of reliable and highly-rated service which has allowed us to increase our listings due to our so-far proven credibility. The Club intends to maintain this commendable level of association with E-Bay as our outlet for sales of our major surplus'd electronics equipment.

There is a prior knowledge of the items that will be coming to sale by some of the Club members who assist and help with the moving from the storage unit to the BARS room. During the interim period between transporting, preparation, and posting for sale on E-Bay, the items are normally "on display" in the BARS room except for those of exceptional condition and value that are securely stored away to prevent damage or theft. Also, once an item is posted on E-Bay and before its final sale, it is available by appointment for a hands-on, non-destructive, inspection by anyone interested in attaining the item only through the E-Bay venue. The E-Bay sale amount transaction includes the final accepted item price, plus applicable sales tax and estimated shipping costs based on weight and method, that will all be paid by the buyer. The Club receives a net amount after E-Bay listing fees and financial transaction fees are deducted. The difference between the E-Bay assessed and the Club's actual shipping costs are subsequently reconciled by BARS. A local or nearby buyer can forego the E-Bay determined shipping costs by opting for a local in-person pick-up arrangement scheduled at the BARS room with proper purchase confirmation paperwork.

Minor items and equipments that have been judged and determined to be of relatively low nominal value and demand and that probably will not be successfully sold on E-Bay, have been set aside for simpler disposal but still by fair public sales methods. Various assortments of the Club's recently attained donated and then surplus'd items have been sold at the silent auctions conducted at our Hamfests in 2019 and 2018, where the Club deducted the applicable sales tax from the winning bid price rather than add the sales tax on to the buyers cost. A pleasant situation occurred recently when one, if not two, hamfest attendees offered a one-price, take-it-or-leave-it-right-now, amount for some equipment before the close of the silent auction. We could not in good conscience change the rules in fairness to those who had and would be actively bidding on the same item(s). The prospective purchaser was encouraged to place his bid on the auction sheet (with a contact number) as others had, and then see how the offers proceeded. At the end of the auction, the winning bid was from the "one-price" buyer whose unbeaten offer was less than the on-the-spot price he originally proposed. Should BARS have held him to his first bargain? The Club retained its honor and reputation, and our patron retained the difference in his wallet.

The decision of the Board of Directors to respectfully not accept offers for privately arranged purchases of BARS property reflects our position to consider the best interests of BARS and its members and other stakeholders who rely on the Club as an organization to operate with the knowledge of all concerned constituents in an open and visible, even if less than an expedient and seemingly unaccommodating, unbiased and objective manner.

Introduction to DXing

by Mika Mäkeläinen

DXing means listening to far-away — usually foreign — radio stations. Listening to your regular hometown station is not DXing, but listening to a similar station thousands of kilometers away, outside the normal coverage area, is DXing.

“D” is said to mean distance and “X” refers to the unknown. DXers — hobbyists who enjoy DXing — try to pick up radio stations, which normally would not be audible at such a distance.

Most DXers concentrate on broadcasting stations. This refers to stations that are meant to be listened to by the general public. Radio waves are also used by various utility stations from cellphone companies to sea and air traffic as well as the military, and some DXers enjoy hunting these signals as well.

DXing was the way to learn about the world and connect with the outside world in real time before satellite television and the Internet. Even today, DXing offers an intriguing and challenging way to get in touch with remote corners of the world.

Advanced hobbyists often buy a communications receiver specifically designed for the hobby, but these are fairly expensive. A beginner can start with any receiver which has shortwave bands (all or parts of the frequency range 3-30 MHz) and a digital frequency display.

DXers should not be confused with radio amateurs — also known as ham operators. Unlike a ham operator, a DXer doesn't transmit anything himself and doesn't therefore need any license. DXers don't need to know about electronics, radio technology nor about telegraphy, but as a hobby DXing can be equally challenging.

The challenge lies in picking up radio signals at an incredible distance. In other parts of the world there are still hundreds of radio stations, which no one on your continent has ever heard, but which could be picked up at your location under ideal conditions — by an experienced DXer, who knows what, where and when to hunt.

Night time is the right time

If you only listen to FM stations, you know that the same stations can be heard day after day. The FM radio signal radiates directly from the transmitter antenna to all directions. Because the earth is round, and the FM signal doesn't bend, FM radio stations are normally not heard much beyond the horizon. Under exceptional circumstances even an FM signal can bounce back from the atmosphere, and these kind of special reception conditions are what FM DXers are after.

Most DXers however are interested in AM (mediumwave) and shortwave stations. If you have listened to the AM band, you know that more stations can be heard during the night than during the day. This is because at night a certain layer in the ionosphere (which is part of the atmosphere) reflects signals back to the earth.

Sunlight however creates a new different kind of layer at a lower altitude that weakens radio signals, especially on the AM band, so that you can no longer hear stations from far away. Therefore long distance AM reception is usually possible only when both the transmitter and the receiver — and the path in between — fall under darkness.

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Radio propagation on most shortwave frequencies is rather similar. Therefore, around sunset, DXers are eagerly trying to hunt for signals coming from the east. Likewise, sunrise is the best time to hear stations from the west. At these times, interfering stations from other directions are not quite as strong as for example around midnight, when stations from all possible directions are heard and when they can cause interference to each other. Reception conditions change constantly due to a variety of factors, some of which are unpredictable. Therefore, scoring rare catches requires constant monitoring of the stations audible.

Send a reception report...

DXers use special equipment to monitor the airwaves. The so-called communications receivers are specifically designed for semi-professional listeners. An expensive receiver is however useless without a good antenna. Most DXers use antennas made of copper wire, which is hung on trees or poles outside. You can get started in the hobby using simple and inexpensive equipment, but you can easily spend enormous amounts of time and money to improve your hardware.

After hearing an interesting station, DXers try to identify the station in question. This is often difficult because of poor reception quality. The station may also be transmitting in a language that the DXer doesn't understand. Over the years DXers develop elementary skills in a wide range of languages and at least learn to recognize different languages, styles of music and identification patterns. Handbooks (especially World Radio TV Handbook), DXers' magazines and websites like DXing.info help in planning what frequencies and when to listen to, and also help in analyzing your catches.

For future reference, all interesting signals are recorded. By reviewing notes and recordings made at the time of listening, many DXers compile reception reports, which they send to the station by mail — or nowadays mostly by e-mail. A reception report includes all the details of what, where, when and how the station was heard by the distant listener. Written program details or a recording should be enclosed as proof of having heard the station. In the report, DXers request a confirmation in return — this can be in the form of a letter, an e-mail or a "QSL" card from the station verifying that the signal was indeed theirs.

In the past reception reports used to be valuable feedback for international broadcasters, but nowadays when monitoring reception quality is in many cases automated and more professional, many stations find themselves inundated with reception reports that are not much use, and reply just out of courtesy. Domestic broadcast stations can however be positively surprised that their small local station has been picked up in a distant country, even though far-away listeners are not part of their target audience.

... and hope for a reply

DXers collect these verifications — known as QSLs — as mementos of their discoveries on the dial, and also to demonstrate how many stations they have been able to pick up. Even though QSLs can't be considered as definite evidence of hearing a station — as some stations routinely confirm even insufficient reports and other stations hardly ever reply to any reports — collecting QSLs remains a major pursuit for many DXers. Competitions between DXers are usually based on the number of QSLs received. Increasingly, also recordings of station identifications are collected, counted and saved as evidence of hearing remote stations.

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On DXing.info you can get a taste of many different aspects of DXing; read inside accounts on hunting elusive rarities on DX-expeditions (DXpeditions), listen to audio samples of distant radio stations, view images of some verifications received and browse articles on DXing or profiles of radio stations. Enjoy the site — but don't forget to switch your radio on, and discover for yourself what surprising signals the airwaves may bring your way tonight!



Traditionally QSLs have been in the form of cards like the above from the Mexican station XERED (1110 kHz), but nowadays letters and emails are more common.

<http://www.dxing.info/introduction.dx>

Everyone can Enjoy DXing

Edward Doyle, KJ4NRN

Even when starting small DXing can be fun for all.

In just over 2 years of being a ham, the one thing I've found that I can do for hours on end without getting bored is DXing.

I've found that some hams think DXing is too hard, QSLing too expensive or that they don't have the right equipment. DXing is something that everyone can enjoy and nobody says that you have to QSL to be a DXer. Some DXers I've spoken with have logged over 200 countries but don't have a single QSL card.

I have a nice setup (mainly due to the generosity of some friends) in the shack, but, being 15 years old, I don't have money to throw around nor do I have enough experience in ham radio to be an expert. So how did I end up with 176 countries in my log?

You simply need to remember these five simple rules:

1. Be sure you always listen before transmitting
2. Make sure you are always courteous
3. Remember that there is usually propagation to somewhere
4. Learn when propagation conditions are best.
5. Always be patient

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Schedule for Volunteer Examinations in 2019-20

Harry Spark/KN4S,*
Bluegrass Volunteer Examiners
kn4s@kn4s.com

The exam schedule for 2019 follows nearly the same format as past years. The scheduling is for Lexington/Fayette County and the sessions in Danville, Georgetown, Winchester, and Richmond hamfest. The Bluegrass Amateur Radio Society-sponsored ARRL exams will continue to be held on the second Saturday of the second month of each quarter (except the August Session will be the date of the Central Kentucky ARRL Hamfest in Lexington), and the WCARS sessions remain as they were last year, Tuesday evenings quarterly.

Test Session Locations

Lexington*	Winchester**	Danville	Georgetown
Red Cross Building	Clark County EOC	Amer Legion Post 46	Georgetown Police Dept
1450 Newtown Pike	200 Maryland Ave	45 Spears Lane	550 Bourbon Street
Lexington KY 40509	Winchester KY 40391	Danville KY 40422	Georgetown KY 40324

* August, Bluegrass ARS Hamfest, Eastland Shopping Center, Lexington, Kentucky
** September, Richmond Hamfest, Madison County Fairgrounds, Richmond, Kentucky

Contact Information

ARRL VEC: Lexington and BARS ARRL Hamfest test sessions - Liaison **Fernie Williams/KE4MAI**, ke4mai@arrl.net, 859-652-3393
(www.bluegrassars.org)
Danville - Liaison **John Wulf/K4FT**, johnk4ft@gmail.com, 563-505-0339, Wilderness Road ARC, <http://www.wrarc.com>
Georgetown - Liaison **Ron Malinowski/WX4GPS**, wx4gps@arrl.net, 502-542-8252
WCARS VEC: Lexington - Liaison **Marguerite Williams/KE4MAJ**, ke4maj@arrl.net, 859-489-6274 (www.bluegrassars.org)
W5YI VEC: Winchester - Liaison **Darrell Epperson/AC4YD**, AC4YD@arrl.net, 859-771-1834

TEST SESSION FEE: ARRL - \$15; WCARS - \$10; W5YI - \$14

Date and Time	VEC	Location
September 12, 2020 10:00 am (ARRL VEC)		Georgetown Police Department Georgetown, KY
Pre-Registration Required by emailing or calling the Contact Person shown		
September 19, 2020 12:30 pm (W5YI VEC)		Clark County Emergency Operation Center 200 Maryland Ave Winchester, KY
Pre-Registration Required by emailing or calling the Contact Person shown		

**Please find below the link to the Club's Ebay Account.
Copy it into your browser and check out the items the
club has up for auction.**

<https://www.ebay.com/sch/bluegrassars/m.html>

September 25th and 26th, 2020, Pigeon Forge, TN

Hello Friends and Club Officials

I want to ask that you pass along this announcement about this years W4DXCC convention onto your club members and friends, thank you in advance.

Hello from W4DXCC 16 DX and Contest Convention. This is our 16th year! The Mainstay Suites and Convention Center is open for business as of today May 8th and will be ready to host this years W4DXCC DX and Contest Convention for 2020 September 25-26th.

Plan on attending today! The Website has been updated with the latest News. Be sure to SEE all those who attend last year in the picture gallery Here 2019 Photos.

Go Here for the W4DXCC website W4DXCC

Friday 25th is the Ham Radio Bootcamp where we do our best to provide the knowledge to New and Experienced Hams alike. If your new to some of the new digital modes like FT8-FT4 you wont want to miss Bootcamp.

Saturday 26th is the Main Convention where we have 6 presenters giving you the inside scoop on what is going on. Following each presentation we have time for questions if you would like to know more.

We have all of the leading radio and equipment manufacturers setup in the lobby with the latest gear for you to twist the knobs or click the mice. More importantly you can have a one on one to ask questions about the gear with the company representative in a relaxed environment.

We have a fully operational Ham Shack setup where you can come learn hands on with an Elmer to show you the ropes and make QSO's in CW, Phone and different digital modes.

The Convention is a great place to meet with your friends. Coordinate with your friends to attend the convention and spend time with them reminiscing of the good old days.

We will have VE Testing on Saturday so get to studying for that test and also study for that Upgrade! It is time to make your Hotel reservations for this years convention. Online ticket ordering will open May 15th. Go here to the Website Hotel reservation page Hotel Reservations.

The Convention admission includes Snacks and Drinks during Saturdays session and Lunch. Convention Registration is Open May 15th including Online Ticket Purchasing. There is an evening Banquet that you can attend. When you purchase your Convention tickets also buy the Banquet tickets, seating is limited for the Banquet.

You can make your ticket purchase anytime after May 15th by going here Online Ticket Purchase Check out the Website and learn about the W4DXCC DX and Contest Convention. Go Here

Best 73

See you soon,

Dave Anderson, K4SV

Convention leader

Dave@w4dxcc.com

(continued from page 7, Everyone can enjoy DXing)

If you already follow these rules, you have 99% of what you need.

DXing Tools

For those who don't have tons of time, a computer can be helpful to pick up some DX spots. [A DX spot is a website listing that shows the call sign of the DX station, his frequency, the time the DX was heard and usually some comment about the DX station. — Ed.] Some good spot sites are DXwatch.com and DXsummit.fi.

Your equipment doesn't matter much for the first 50 to 75 countries. If you are very patient and willing to learn a little technique, you can stick with low power to a wire antenna for the earlier contacts. Of course, the easiest way to go is with a 100 W transceiver and a dipole or good vertical antenna.

There are many good books out there about DXing, including The DXCC Handbook and The Complete DXer. Both are available from the ARRL® and other ham radio catalogs. 1

While not necessary, an Amateur Extra class license will open up many more frequencies. On 80, 40, 20 and 15 meters most of the good DX hangs out below the General class segment of the band (which certainly makes the General class license holders mad). Even so, I have worked 138 countries with my General class license and you can too. Seventeen and 20 meters will be your best bands for now and 10 meters when the sunspots really come back. In fact, once the sunspot cycle kicks in again, even you Technicians can work DX on 10 meters. When I was a Technician I got over 30 countries the first year, only on 10 meters. So that just goes to show that you don't need a General class license for DXing.

QSLing can be easy. I won't go into detail about the direct process, but via the "buro" is cheap and easy if you are willing to wait for a reply.² The ARRL's Logbook of the World (LoTW) is free. Not all DXers use LoTW, but some DXers have earned DXCC using only LoTW. Though not accepted for DXCC, eQSL is fun and easy.

So, to the people who think they are having enough fun on 2 meters, get out there and try something new — like DXing. You'll find yourself captivated. It's too much to miss out on. By the end of this article, you should be saying, "If that 15 year old kid can do it — so can I!"

So, the next time you hear a DX station calling CQ, don't just listen. Throw your call sign out there and have some fun.

73 and hope to see you "down the log."

[For more on DXing, see the October 2012 special DXing issue of QST® — Ed.]

<http://www.arrl.org/everyone-can-enjoy-dxing>

Introduction to DX News

This is basic information for people with no prior knowledge of Amateur Radio, DX and Radiosport. There are millions of people all over the world who, in their leisure time, use the radiowaves as hobby. They are called radio amateurs, in some circles hams, and the hobby is officially specified as Amateur Radio Service, and dubbed as ham radio. It all started more than a century ago when commercial radio users determined those short waves being useless for broadcasting and military purposes. Let them play with these unprofitable frequencies - was the ruling of the day. Things have changed since then. The experimenters and plain fanatics soon discovered that these impractical waves sometimes reached very far. . The greater the distance, the more excited they got. Abbreviations were common in the era of railroad telegraph and an appropriate abbreviation was adopted for distant signals on the radio. Undetermined distance became Distance X - viz. DX. (continued on page 11)

(continued from page 10)

A DX in the radio lingo means today a distant station, or its operator. A DX can mean a few miles when microwaves are used, but for the majority of shortwave lovers the term denotes signals from at least another continent. Today DXing has two meanings - passive and active. A passive DXer is someone who is listening to distant commercial radio stations on both medium and short waves, trying to identify them. The contents of such transmissions is irrelevant for the listener, only the distance and the quality of the reception matter. Medium-wave stations, identified as AM on a car radio, are phased out in many areas. Their transmitting antennas are bulky and the transmitters consume much energy. Sporadically, FM radio stations in the VHF (Very High Frequency - 88 to 108 MHz) band, which run usually less power and have modest aerials, can be received over the distance of hundreds, and even thousands of miles. Identifying such stations can be difficult under irregular circumstances since several transmitters share the same frequency channel, but under normal conditions reach only locally. The English language Wikipedia gives straightforward explanations of basic concepts on the subject of DXing in plain language. Try <https://www.wikipedia.org/wiki/DXing> for a start.

The passive DXer who is listening only to Amateur Radio stations is called a short-wave listener - SWL, even though it is not limited to shortwaves (10 - 100 meters). The term was coined before the WWII. This is virtually an extinct group.

Alex Deligianis lives on a small Greek island Lesbos in The Mediterranean. Fascinated by radio since his teens, he monitors wide range of radio spectrum in his home laboratory. The equipment in front of him allows reception of Very Low Frequency transmissions directed to submarines in The Indian Ocean. Alex is fully licensed and can transmit on many bands, but his passion are advanced technologies.

This website is focused on active DXing. People who also transmit, apart from listening, on selected frequencies of the radio spectrum, need approval from the local government or telecommunication authority. Some countries are liberal and allow almost everybody, who is interested, to transmit on designated radio frequencies. There is however a large number of countries where the local population is not interested in this hobby at all. Most of these countries allow visitors to use their radio stations for shorter or longer periods in their territories, with or without any formalities. A few countries do not allow any Amateur Radio activity, or make it very convoluted. These are often called Most Wanted. The main problem for DXers is that there are very few permanent Amateur Radio stations in far-off and underdeveloped places. Amateur Radio is very popular in North America and Europe. In Africa, for example, only a couple of countries are well represented on the air. Each year hundreds of radio enthusiasts travel to small islands and poor countries, with their radio hardware and let the Amateur Radio community have the fun of getting a two-way contact with a rare country. These are called DX-peditions. Counting the contacted countries is part of the hobby, competition is tough since even uninhabited territories sometimes count as countries. Actually, the term entity is used now instead of country to avoid confusion.

Twenty-year old Donata Gierczycka from Poland in the sitting room of Sture Henriksson in Mariehamn, Åland Islands between Finland and Sweden, is using his compact transceiver (receiver and transmitter in one) to contact by radiotelegraphy her friends back home. Åland Islands count as a separate country - entity - for radio amateurs.

(continued on page 12)

continued from page 11)

The active DXer is someone who has both a receiver and a transmitter. All transmitters, used for communication, operating on other frequencies than the free bands, sometimes called Citizens Band or Family Radio Service, need a permit called license. Every licensed transmitter, like every aircraft, has a unique call sign. The call sign indicates the country, and sometimes an area, where the transmitter is located. This is not 100% valid nowadays. A good source of up-to-date information about licensed stations is the database at <http://www.qrz.com>. More than half a million Amateur Radio operators in the USA hold such permits, and over 2 million in the rest of the world. They are mostly interested in shortwave bands which require relatively small antennas, but cover the whole planet. A new trend on the rise is giving Amateur Radio permits and call signs, in some countries, for VHF and UHF bands only. No need to comply with international regulations regarding global coverage on HF bands. Countries like Japan, Indonesia and Thailand can show huge figures for Amateur Radio licensees, but this is fake news. VHF-only handy-talkie is not Amateur Radio. They look for cheap communication locally, not for global coverage, and are not interested in learning how HF radio works. These radio waves, called HF - abbreviated for High Frequency - can be reflected from layers of particles that exist around the Earth, between 50 and 500 miles above the surface. These layers and the deflections is nothing to be taken for granted. It is a dynamic process, influenced by the Sun and the Earth's magnetism. Basically, you never know if the radio waves will disappear in the outer space or will return to the ground, or more likely, to the sea, since there is more water than land on Earth. This is where the thrill of DXing is. The Internet and cell-phones are easy to use, but are predictable and the transfer of information is out of control for the end-user. Amateur Radio is about understanding what goes on, well, to a certain extent. The scientists have made huge progress in explaining the Sun, the magnetism and the ionosphere around the Earth, but we cannot control them. We know more and more how to use these phenomena and predict some effects, but we can only humbly accept what is generated by the Nature.

Louis Beirao has a small radio transceiver (receiver and transmitter combined in one unit) made over 40 years ago, in his living room under the TV-set in his home on Sao Tome island on the Equator in Africa. He used to keep in touch with friends and family in Portugal and other lusophone countries.

Using the right instruments, we can listen to and communicate with people who use similar instruments. There are three basic units necessary for radio communication in general - an antenna, called sometimes a radiator; a transmitter and a receiver. Shortwave amateur installations are today quite compact and sophisticated, with both the transmitter and the receiver in one unit, called the transceiver. The modern radio technology is based on digital processing of voice and image, so even Amateur Radio is affected. Still, many of radio aficionados of the world use the old-fashioned analogue equipment. Vintage receivers and transmitters, more than 50 years old, still perform well, if kept in good shape. The most critical piece of every radio installation is the antenna. The most expensive and modern radio transceiver will not perform well without a decent antenna. An efficient antenna is the best investment in a radio setup. Sometimes separate antennas are used for reception and for transmitting due to different properties of a particular shape and form. One thing is common - the size of an efficient antenna is corresponding to the wavelength, the longer the radio wave, the larger the antenna should be in order to give away the energy. Many radio amateurs devote much time to construct and experiment with these radiators. It is quite common that the same antenna will perform better in one location than in another; many factors determine the outcome.

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A small percentage of experienced and ambitious radio amateurs are involved in contesting, or radiosport. Amateur radio contests are today very common, but only several of them attract large numbers of participants. The formula of a contest is to contact as many as possible stations during a limited time span. Short contests last an hour, but the world-wide competitions run on for 48 hours. Every weekend there are at least a few contests, with some local events during the week. A contest is good for improving one's operating skills and for making plenty of contacts while there are many stations simultaneously on the air. However, comparing the final scores is misleading. There are many factors beyond the control of the operator that affect the overall performance. Some committed contest operators travel to certain spots on the globe, where they can fully exploit their individual artistry as operators. These are called contest expeditions. Simply, some places are better for ionospheric propagation of radiowaves, some radio installations are of better design and more reliable, and so on.

Every four years, in the middle of July, the ultimate competition for Amateur Radio testers is organised in different locations. This is called The World Radiosport Team Championship, when over 100 eligible operators from the whole world are having equal chances of showing their skills and tactics. The WRTC2018 took place in eastern Germany, the next event is planned for year 2022 in Italy.

Phil Goetz from New Mexico, USA at the microphone of his Amateur Radio station temporarily installed in a studio of a defunct commercial radio station in Banjul, The Gambia in Africa. Phil came here with a group of friends to put this small country on the air as there were no local radio amateurs

Radio reception is today affected by a cloud of man-made electrical noise. Trying to listen on a shortwave radio in a concrete office building down-town is doomed for disappointment. The metal structure will absorb any signals, while the office equipment, lights and elevators produce sharp electrical pulses that a sensitive radio receiver will react to. Cities in general are not DX-friendly. Outdoor antenna restrictions are in force in many industrial countries. The most successful DXers build their stations far from towns and power lines. The recent trend is to remotely control such stations over the Internet or microwave link from the regular residence in town.

Jim McCook of California, USA with his rotary directional antennas behind him. The tower is 70 ft high and the antennas are home-made or modified commercial products. He can easily contact radio amateurs in the whole world choosing the right frequency - or wavelength. The wavelengths are traditionally expressed in meters. Maybe because radio was basically an European invention (Marconi, Hertz, Tesla).

The Internet is vital for contemporary DXers. The news about operative stations, propagation and solar activity, background information about the installations and operators, technical advice and other facts are readily posted on many portals and individual websites. A well-working real-time information billboard called The DX Summit gives a total picture of current activity on all frequencies assigned to Amateur Radio. The amount of information is incredible, and the abuse of this portal is its weak point. Too many operators announce insignificant events and the true DX is no longer highlighted. Egocentrics declare their presence on the air without any respect for the current propagation conditions, others advertise friends and neighbours for no reason. This site is recommended for the experienced operator who can quickly filter out irrelevant information. The DX News is dedicated to reliable information about DXing and contesting. Here, one can read about present and planned trips to remote places, reports, often illustrated, about active operators and groups. This information source is free to use and ads-free.

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The Internet offers new services to the DXer, never-thought-of before. The digital technology allows setting up receiving posts which can be controlled by anyone. This can be used to monitor how your transmitter sounds in a distant location. This can be also used for comparing the propagation in different places. Finally, what I recommend to every reader whose curiosity has been aroused by this article, to try passive DXing on the web, in front of your computer at home. Do it before you acquire a traditional radio receiver and hang some reasonable antenna. One suggestion is looking for links to the SDR (Software Defined Radio) receivers on line.

Centuries ago people believed in the aether in which the signals spread through. Now we know that radio waves are basically the same kind of radiation as light, X-ray and others. They just behave in a different way and people know how to use them to communicate with others. However, the shortwave radio is still a mysterious adventure, attracting more and more people all over the world.

Henryk Kotowski, SM0JHF

August 2018

<https://dxnews.com>

DX Most Wanted List

1. P5 DPRK (NORTH KOREA)
2. 3Y/B BOUVET ISLAND
3. FT5/W CROZET ISLAND
4. BS7H SCARBOROUGH REEF
5. CE0X SAN FELIX ISLANDS
6. BV9P PRATAS ISLAND
7. KH7K KURE ISLAND
8. KH3 JOHNSTON ISLAND
9. 3Y/P PETER 1 ISLAND
10. FT5/X KERGUELEN ISLAND
11. FT/G GLORIOSO ISLAND
12. VK0M MACQUARIE ISLAND
13. YV0 AVES ISLAND
14. KH4 MIDWAY ISLAND
15. ZS8 PRINCE EDWARD & MARION ISLANDS

<https://www.dailydx.com/dailydxblog/clublog.org/mostwanted.php>

Bruce Draper, AA5B, aa5b.corral@gmail.com

Contest Corral

September 2020

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

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

Start - Finish Date-Time Date-Time	Bands	Contest Name	Mode	Exchange	Sponsor's Website
2 1700 2 2000	144	VHF-UHF FT8 Activity Contest	Dig	4-char grid square	ft8activity.eu/index.php/en
2 2000 2 2100	3.5	UKEICC 80-Meter Contest	Ph	4-char grid square	ukeicc.com/80m-rules.php
2 2300 4 2300	3.5-28	G3ZQS Memorial Straight Key Contest	CW	RST, SPC, name, mbr or power	www.fltsna.org
3 1700 3 2100	28	NRAU 10-Meter Activity Contest	CW Ph Dig	RS(T), 6-char grid square	nrau.net/activity-contests
3 1900 3 2100	1.8-50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or power	www.skccgroup.com
5 0000 5 2359	1.8-28	CWops CW Open	CW	Serial, name	cwops.org/cwops-tests
5 0000 6 2359	3.5-28	All Asian DX Contest, Phone	Ph	RS, 2-digit age	www.jarl.org/English
5 0600 5 0800	7, 14	Wake-Up! QRP Sprint	CW	RST, serial, suffix of previous QSO	qrp.ru/contest/wakeup
5 1300 6 0400	1.8-UHF	Colorado QSO Party	CW Ph Dig	Name, CO county or SPC	ppraa.org/coqp
5 1300 6 1259	1.8-28	IARU Region 1 Field Day, SSB	Ph	RST, serial	darc.de/der-club/referate/conteste
5 1300 6 1300	3.5-28	RSGB SSB Field Day	Ph	RS, serial	www.rsgbcc.org/hf
5 1400 6 1400	145	IARU Region 1 145 MHz Contest	CW Ph Dig	RS(T), serial, 6-char grid	laru-r1.org/on-the-air
5 1600 5 1900	7	AGCW Straight Key Party	CW	RST, serial, class, name, age	agcw.org/index.php/en
5 2000 6 2000	3.5	PODXS 070 Club Jay Hudak Memorial 80-Meter Sprint	Dig	RST, SPC	www.podxs070.com
6 1000 6 1400	144	WAB 144 MHz QRO Phone	Ph	RS, serial, WAB square or country	wab.internip.net
6 1800 7 0300	1.8-UHF	Tennessee QSO Party	CW Ph Dig	RS(T), TN county or SPC	tnqp.org/rules
7 1900 7 2030	3.5	RSGB 80-Meter Autumn Series, SSB	Ph	RS, serial	www.rsgbcc.org/hf
7 2300 8 0300	1.8-50	MI QRP Labor Day CW Sprint	CW	RST, SPC, mbr or power	miqrp.net/contest
8 0100 8 0300	3.5-28	ARS Spartan Sprint	CW	RST, SPC, power	arsqrp.blogspot.com
9 1700 9 2000	432	VHF-UHF FT8 Activity Contest	Dig	4-char grid square	ft8activity.eu/index.php/en
12 0000 12 2359	3.5-28	Russian RTTY WW Contest	Dig	RST, oblast or CQ zone	qrz.ru/contest/detail/93
12 0000 13 2359	2.3 GHz +	ARRL EME Contest	CW Ph Dig	Signal report	www.arrl.org/eme-contest
12 0000 13 2359	3.5-28	WAE DX Contest, SSB	Ph	RS, serial	darc.de/der-club/referate/conteste
12 1000 13 1000	1.8-28	SARL Field Day Contest	CW Ph Dig	RS(T), number of xmits, category, province or "DX"	www.sarl.org.za
12 1200 13 2359	1.8-50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
12 1400 12 2200	3.5-28	Ohio State Parks on the Air	Ph	Park abbreviation or "OH" or SPC	ospota.org
12 1400 13 2000	1.8-UHF	Texas QSO Party	CW Ph Dig	RS(T), TX county or SPC	www.txqp.net
12 1500 13 0300	3.5-28	Alabama QSO Party	CW Ph	RS(T), AL county or SPC	alabamagsoparty.org
12 1500 13 0959	3.5-28	Russian Cup Digital Contest	Dig	Serial, 4-char grid square	qrz.ru/contest/detail/86.html
12 1800 14 0300	50 +	ARRL September VHF Contest	CW Ph Dig	4-char grid square	www.arrl.org/september-vhf
13 0000 13 0400	3.5-14	North American Sprint, CW	CW	Other station's call, your call, serial, name, SPC	ncjweb.com
14 0000 14 0200	1.8-28	4 States QRP Group Second Sunday Sprint	CW Ph	RS(T), SPC, mbr or power	www.4sqrp.com
16 1900 16 2030	3.5	RSGB 80-Meter Autumn Series, CW	CW	RST, serial	www.rsgbcc.org/hf
17 0030 17 0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	naqcc.info/contests.html
17 1930 17 2059	3.5	BCC QSO Party	CW Ph Dig	RS(T), T-shirt size	bavarian-contest-club.de/2326
18 2100 18 2359	3.5	AGB NEMIGA Contest	CW Ph Dig	RST, serial, mbr (if any)	ev5agb.com/index_eng.html
19 0000 19 2359	1.8-VHF	FOC QSO Party	CW	RST, name, mbr (if any)	g4foc.org/qsoparty
19 0000 20 2359	1.8-UHF	Collegiate QSO Party	CW Ph Dig	School name, RS(T), operating class	collegiateqsoparty.com
19 0600 20 2359	10 GHz + 50, 70	ARRL 10 GHz and Up Contest	CW Ph Dig	6-char maidenhead locator	www.arrl.org/10-ghz-up
19 1200 20 0800	144, 432, 1296	SARL VHF/UHF Digital Contest	Dig	RST, 6-char grid locator	www.sarl.org.za
19 1200 20 1200	3.5-28	Scandinavian Activity Contest, CW	CW	RST, serial	sactest.net/blog
19 1200 20 1200	1.8-28	All Africa International DX Contest	CW Ph Dig	RS(T), serial	www.sarl.org.za
19 1400 20 0200	1.8-UHF	Iowa QSO Party	CW Ph Dig	RS(T), IA county or SPC	www.w0yl.com/IAQP
19 1500 19 2100	1.8-28	QRP Afield	CW Ph Dig	RS(T), SPC, mbr or power	newenglandqrp.org/qrp-afeld-2018
19 1600 19 2300	3.5-144	Wisconsin Parks on the Air	Ph	WI park abbreviation or SPC	wipota.com
19 1600 20 0359	3.5-28	New Jersey QSO Party	CW Ph Dig	RS(T), NJ county or SPC	k2td-bcrg.org/njqp
19 1600 20 2200	1.8-UHF	New Hampshire QSO Party	CW Ph Dig	RS(T), NH county or SPC	w1wqm.org/nhqsop
19 1600 20 2359	1.8-144	Washington State Salmon Run	CW Ph Dig	RS(T), WA county or SPC	wwdxc.org/salmonrun
19 1800 19 1959	1.8-50	Feld Hell Sprint	Dig	RST, mbr, SPC, grid	sites.google.com/site/feldhellclub
20 0000 20 0400	3.5-14	North American Sprint, RTTY	Dig	Other station's call, your call, serial, name, SPC	ncjweb.com
20 1700 20 2059	3.5-28	BARTG Sprint 75	Dig	Serial	bartg.org.uk
20 2300 21 0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or power	qrptest.com/pigrun
21 1900 21 2300	144	144 MHz Fall Sprint	CW Ph Dig	4-char grid square	svhfs.org
23 0000 23 0200	1.8-28	SKCC Sprint	CW	RST, SPC, name, mbr or power	skccgroup.com
24 1900 24 2030	3.5	RSGB 80-Meter Autumn Series, Data	Dig	RST, serial	rsgbcc.org/hf
26 0000 27 2359	3.5-28	CQ Worldwide DX Contest, RTTY	Dig	RST, CQ zone, US state or VE area (if US/VE)	www.cqwwrtty.com
26 1200 27 1200	1.8-28	Maine QSO Party	CW Ph	RS(T), ME county or SPC	ws1sm.com/MEQP.html
26 1400 26 1800	144, 432	AGCW VHF/UHF Contest	CW	RST, serial, power, 6-char grid	agcw.org/index.php/en
28 1900 28 2030	3.5	RSGB FT4 Contest Series	Dig	4-char grid square	www.rsgbcc.org/hf
29 1900 29 2300	222	222 MHz Fall Sprint	CW Ph Dig	4-char grid square	svhfs.org
30 2000 30 2100	3.5	UKEICC 80-Meter Contest	CW	4-char grid square	ukeicc.com/80m-rules.php

There are a number of weekly contests not included in the table above. For more info, visit: www.qrpfoxhunt.org, www.ncccsprint.com, and www.cwops.org.

All dates refer to UTC and may be different from calendar dates in North America. Mbr = Membership number. Serial = Sequential number of the contact. SPC = State, Province, DXCC Entity. XE = Mexican state. Listings in blue indicate contests sponsored by ARRL or NCJ. The latest time to make a valid contest QSO is the minute listed in the "Finish Time" column. Data for Contest Corral is maintained on the WATBNM Contest Calendar at www.contestcalendar.com and is extracted for publication in QST 2 months prior to the month of the contest. ARRL gratefully acknowledges the support of Bruce Horn, WATBNM, in providing this service.

There are no minutes for August General meeting of the Bluegrass Amateur Radio Society, Inc., the meeting was held to determine the outcome of the Special Election. The winner's were Jodie Wells for treasurer and Chris Gay as Director-at-Large.

There are no minutes for the Board meetings as of yet.

The BARS Open General Meetings are expected to resume in the future on their regular schedule of the first Monday of each month when the recommended restrictions on group gatherings are ended and the Red Cross Building is again available for BARS functions.

The BARS board of directors are looking into holding the General Membership meetings byway of "Zoom" or some of virtual meeting type software. More information will be passed along as it becomes available.

Program Schedule for 2020

David Richardson/W9KHZ, Chair, Program Committee
Bluegrass ARS, Lexington, Kentucky

The following programs are scheduled for 2020. Your input and suggestions for programs for 2020 are needed. Call David Richardson, W9KHZ at 859-983-1380 or e-mail at daveinlex3@gmail.com/.

Month	Topic	Presenter(s)	Comments
✓ January	"Winter Field Day" January 25-26, 2020	David Richardson/W9KHZ	
✓ February	FT8 Digital Mode	Chris Gay	
✓ March	SkyWarn National Weather Service, Joe Sullivan, Louisville, KY		start time is 7 pm
✓ April	CANCELLED DUE COVID -19		
✓ May	CANCELLED DUE COVID-19		
✓ June	CANCELLED DUE COVID-19		
✓ July	CANCELLED DUE COVID-19		
✓ August	CANCELLED DUE TO COVID -19		
✓ September	Annual Family Picnic		CANCELLED DUE COVID-19
October	TBA		
November	Nominating Committee Report		
December	"Annual Auction"/Election	Brad James	

Meeting Schedules for Area Clubs, Exam Sessions, etc.

Volunteer examinations are held in or near Lexington on a schedule that has tests in central Kentucky every month of the year. Schedules for area sessions, plus meetings, etc., are as follows:

The Bluegrass Amateur Radio Society, Inc. (Lexington) - (Fernie Williams/KE4MAI (ARRL - \$15.00) and Margie Williams/KE4MAJ(WCARS- \$10.00)), with Darrell/AC4YD in Winchester and Richmond (W5YI), John/K4FT in Danville (ARRL), and Ron/WX4GPS in Georgetown (ARRL - \$15.00), have a schedule to offer an exam monthly in Lexington/central Kentucky. (See schedules on page 10 of this newsletter). ARRL sponsored tests are held the second Saturday of the month, 10:00 AM in the Red Cross Building, Meeting Room "B", 1450 Newtown Pike, Lexington (except the August session is the Saturday of the second weekend of the month and is held at the site of the Central Kentucky ARRL Hamfest), and WCARS sponsored sessions are held the third Tuesday of the scheduled month, 7:00PM in Meeting Room "A" in the Red Cross Building, 1450 Newtown Pike, Lexington. Contact Margie/KE4MAJ at 859-489-6274 or email to ke4maj@arrl.net. Go to <<http://www.lexkywcars.org>> for information.

Winchester (W5YI VEC) - They are located in the Clark County EOC, 200 Maryland Avenue, Winchester, Kentucky. Their 2019 schedule (10:00AM): Saturday, January, 12, Saturday, April 13, Saturday, July 13, and Saturday, October 12. Contact Liaison Darrell Epperson/AC4YD, AC4YD@arrl.net, 859-771-1834

Danville (ARRL VEC) - Test sessions are fourth Saturday in January, April, July and October at 10:00 AM. Liaison John Wulf/K4FT, johnk4ft@gmail.com, 563-505-0339, Wilderness Road Amateur Radio Club, American Legion Post 46, 45 Spears Lane, Danville, KY 40422 - Repeater 145.310 (100 pl).

Georgetown (ARRL VEC) - Liaison Ron Malinowski/WX4GPS, wx4gps@arrl.net, 502-542-8252, Georgetown Police Dept, 550 Bourbon St., Georgetown (for dates see schedule on page 4 of this newsletter).

Radio Theory and Construction Workshop - Each Saturday 1:00-3:00 PM in the Bluegrass ARS Education Center, basement of the Red Cross Building, 1450 Newtown Pike, Lexington. Contact Bill Fuqua/WA4LAV at (859) 272-9523 or wa4lav@arrl.net.

Versailles/Woodford County - The Woodford County Amateur Radio Club meets the first Wednesday of each month at 7:00 PM in the Versailles Fire Station No. 2 on Big Sink Pike (38°3'34" N 84°43'11"W). Anyone interested in amateur radio is cordially invited. Also, visit their web site at <<http://www.ky4wc.org>>. You may contact Todd Rose/KE4YAH (atrose@windstream.net).

Fayette County ARES Net - Tuesday, 8:30 PM, 146.940 (-600 Tone 88.5) repeater.

Amateur Television and Specialized Communications Net

- An informal meeting is held every Sunday evening at 9:00 PM (local time)

on the 146.760 (-600 offset) repeater in Lexington.

Kentucky Six-Shooters Net - Wednesday evenings at 9:00 PM six meters FM on 52.525 MHz (vertically polarized). David Jordan/KI4AWZnet control; and, Daily Six-Meter FM Ragchew net 7:00-9:00 PM on 52.525MHz (vertically polarized). James Peel/KG4VAR net control.

KY-QRP - Suspended for the time

Scott County Amateur Radio and Emergency Service Club (SCARES) - Meetings are the third Saturday each month, 9:00 AM in the Solarium room at Georgetown Community Hospital, 1140 Lexington Road, Georgetown. Check in to their weekly simplex net Tuesdays at 7:00 PM on 146.685 (PL 141.3).

Central Kentucky ARS (Richmond-Berea) - Meet the Third Thursday each month in the Madison County EOC, Richmond, Kentucky, at 7:00 PM. Talk-in on 146.865 (-600, PL-192.8 Hz) and 145.370 (-600, PL-192.8 Hz) repeater for location, directions to meeting site, or other information.

Greater Mason County ARA meeting, 7:00 PM, second Tuesday each month, Maysville Community College Science Building.

Pioneer ARC (Winchester) - Fourth Tuesday each month, Golden Corral Restaurant, 7:00 PM (eat at 6:00), except March 17 meet at Christview Christian Church (SkyWarn). Talk-in/info on 145.430 (-600, T-203.5).

Jessamine Amateur Wireless Society (Nicholasville) - Meet Second Monday each month, 7:00 PM, St. Joseph/R.J. Corman Ambulatory Care Center, 1250 Keene Road (U.S. 27 Bypass south to intersection with 169; turn at the light.) Talk-in on the 145.490 (T-123.0).

The Jessamine County ARES Net - Tuesdays at 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control.

The Madison County ARES Net, Monday at: 7:00 PM, 146.865 (pl 192.8). Everyone is invited to check in. . . Wilderness Trail Emergency Net, Wednesdays, 8:30 PM, 146.715 (pl 100.0). . . Glenn/KO4OL.

District 11 Skywarn Net meets Sundays at 8:00 PM on 146.925 (-PL- 79.7) and is linked to 147.180 (PL-74.4) and other repeaters in and close to the area. District 11 ARES Net meets Mondays at 9:00 PM on 146.925 (PL-79.7) and is linked to 147.180 (PL-74.4) and other repeaters in and close to the area.

Please send any changes or corrections to these notices to my attention, Bart Breeding/KB4FEE, in care of Bluegrass ARS, Inc., PO Box 4411, Lexington, KY 40544-4411, or e-mail to aratat291@twc.com.

"The government, which was designed for the people, has got into the hands of the bosses and their employers, the special interests. An invisible empire has been set up above the forms of democracy."

Woodrow Wilson

BLUEGRASS AMATEUR RADIO SOCIETY, INC.
 RECEIPTS, DISBURSEMENT EXPENSES, AND ACCOUNT BALANCES
 July 1, 2020 - July 31, 2020

	Cash Not Deposited	Checks Not Deposited	On On Behalf of In-Kind	Accounts Payable	Bank Checking Account	PayPal PayPal Account	Bank PayPal Account	Bank Savings Account	Total
RECEIPTS									
ARRL Dues					\$ -	\$ -	\$ -	\$ -	\$ -
BARS Dues					\$ -	\$ -	\$ -	\$ -	\$ -
Donations, general cash/check/paypal					\$ -	\$ -	\$ -	\$ -	\$ -
Donations, conversions(gross) ebay					\$ -	\$ -	\$ -	\$ -	\$ -
Donations, conversions other auctions(net)					\$ -	\$ -	\$ -	\$ -	\$ -
Sales Tax direct collected					\$ -	\$ -	\$ -	\$ -	\$ -
Donations, designated: Coax/Repeater(*)					\$ -	\$ -	\$ -	\$ -	\$ -
Education(*)					\$ -	\$ -	\$ -	\$ -	\$ -
Others					\$ -	\$ -	\$ -	\$ -	\$ -
Education(*), sales					\$ -	\$ -	\$ -	\$ -	\$ -
Government Refunds & Credits & Adj's					\$ 235.49	\$ -	\$ -	\$ -	\$ 235.49
Hamfest (gross proceeds)					\$ -	\$ -	\$ -	\$ -	\$ -
Interest					\$ 0.46	\$ -	\$ -	\$ -	\$ 0.46
Miscellaneous					\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -		\$ 235.95	\$ -	\$ -	\$ -	\$ 235.95
DISBURSEMENT EXPENSES:									
ARRL Dues					\$ -	\$ -	\$ -	\$ -	\$ -
BARS Room					\$ -	\$ -	\$ -	\$ -	\$ -
Coax/Repeaters(*)					\$ -	\$ -	\$ -	\$ -	\$ -
Donations by BARS, direct check					\$ 250.00	\$ -	\$ -	\$ -	\$ 250.00
Donations, ebay conversion costs incurred (net of)					\$ 1,168.83	\$ 739.47	\$ -	\$ -	\$ 1,908.30
Storage Unit Rental					\$ -	\$ -	\$ -	\$ -	\$ -
Packing					\$ 219.21	\$ -	\$ -	\$ -	\$ 219.21
Miscellaneous Adj.					\$ (18.28)	\$ -	\$ -	\$ -	\$ (18.28)
Education(*), purchases					\$ -	\$ -	\$ -	\$ -	\$ -
Election					\$ 42.31	\$ -	\$ -	\$ -	\$ 42.31
Shack/Shop Equipment					\$ 500.00	\$ -	\$ -	\$ -	\$ 500.00
Field Day					\$ 190.80	\$ -	\$ -	\$ -	\$ 190.80
Government Fees					\$ 25.00	\$ -	\$ -	\$ -	\$ 25.00
Hamfest					\$ -	\$ -	\$ -	\$ -	\$ -
Insurance					\$ -	\$ -	\$ -	\$ -	\$ -
Miscellaneous/postage stamps/etc.					\$ 50.10	\$ -	\$ -	\$ -	\$ 50.10
Newsletter/media					\$ -	\$ -	\$ -	\$ -	\$ -
PayPal Fees, other than ebay					\$ -	\$ -	\$ -	\$ -	\$ -
Picnic					\$ -	\$ -	\$ -	\$ -	\$ -
P O Box					\$ -	\$ -	\$ -	\$ -	\$ -
Sales Tax, Direct Paid					\$ -	\$ -	\$ -	\$ -	\$ -
Telephone					\$ -	\$ -	\$ -	\$ -	\$ -
Total				\$ -	\$ 2,427.97	\$ 739.47	\$ -	\$ -	\$ 3,167.44
Net				\$ -	\$ (2,192.02)	\$ (739.47)	\$ -	\$ -	\$ (2,931.49)
								(4)	
Account Transfers						\$ (20,000.00)	\$ 20,000.00		\$ -
Account Transfers					\$ 20,000.00		\$ (20,000.00)		\$ -
Net Net					\$ 17,807.98	\$ (20,739.47)	\$ -		\$ (2,931.49)
					(1)	(2)	(3)		(5)

	Beginning July 1, 2020	Ending July 31, 2020	
Cash (not deposited)	\$ -	\$ -	
Checks (not deposited)	\$ -	\$ -	
Accounts Payable	\$ -	\$ -	
ACCOUNT STATEMENT BALANCES			activity & account diff. cross-check
Bank Checking (*)	\$ 6,543.22	> \$ 24,351.20	(1) \$ 17,807.98
Bank PayPal	\$ 6,264.82	\$ 6,264.82	(3) \$ -
Bank Savings	\$ 201.39	\$ 201.39	(4) \$ -
PayPal PayPal	\$ 28,317.50	\$ 7,578.03	(2) \$ (20,739.47)
Total	<u>\$ 41,326.93</u>	<u>\$ 38,395.44</u>	(5) \$ (2,931.49)

(*) Fund-specific balances in Bank Checking Account

General	\$ 4,093.04	\$ 21,263.52	\$ 17,170.48
Coax/Repeater	\$ 824.98	\$ 824.98	\$ -
Education	\$ 1,625.20	\$ 2,262.70	\$ 637.50
Bank Checking	<u>\$ 6,543.22</u>	<u>> \$ 24,351.20</u>	(1) <u>\$ 17,807.98</u>
			ebay sales \$127.50(11/16/19) & \$510.00(12/15/19) designated to education fund

QUA/HAMnews is published monthly by the Newsletter Committee of the Bluegrass Amateur Radio Society, Inc., and is distributed by e-mail only.

Letters to the editor, technical articles, items of interest to the Ham community and guest editorials are invited and will be published at the discretion of the editor. Items for sale by members of the Society will be advertised without charge for one issue, and may be resubmitted as often as desired. These ads must be non-commercial in nature.

Articles published in QUA/HAMnews do not necessarily represent the views of the Officers, Board of Directors, editor, or Society membership, nor does publication thereof represent concurrence by the Officers, Board of Directors, editor, or Society membership of the contents of the article. No article will be published unless it is accompanied by the name(s) of the person(s) submitting the material.

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Annual Dues (January 1 - December 31)

Payable using Pay Pal - Go to <<http://www.BluegrassARS.org>>, Click on

"Membership," click on the option for your preference as below:

Regular Membership: One year - \$20.00; two years - \$38.00; three years - \$55.00 (Additional family member(s) at the same address \$1.00 each per year)
 Associate Membership - \$15.00 (for those who reside farther than 50 miles from Lexington)

Full-Time Student Membership - \$12.00 (for those 21 and under, and no other Club member in the family)

Shack telephone: (859) 231-0974 web page: <http://www.BluegrassARS.org/>

Calendar of Ham Radio Activities for SEPTEMBER 2020

- Tue 1 Amateur Swap Net 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern, KY-QRP Net suspended; Fayette County ARES Net 8:30 PM 147.940 with a PL tone of 88.5
- Wed 2 Open Rag chew Net 8:00 pm 146.760 neg offset no PL tone; Wilderness Trail Emer Net, 8:30 pm, freq. 146.71 PL 100 ; Six Shooters Net, 9:00 PM on 52.525 MHz FM (vertically polarized);
- Thu 3 Jessamine Cty ARES Net, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control.
- Sat 5 Shack closed; Open Rag chew Net 9:00 am 146.760 neg offset no PL tone
- Sun 6 Amateur Television & Specialized Communications Net, 9:00 PM (146.760 Repeater); District 11 Skywarn Net, 8:00 PM, 146.925 PL-79.7 Hz) linked to 147.180 (PL-74.4 Hz) linked to 147.180 (PL-74.4) and other repeaters in the area
- Mon 7 District 11 ARES Net 9:00 PM 146.925 (PL-79.7) linked to 147.180 (PL-74.4) and other repeaters in the area.
- Tue 8 Swap Net 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern, 443.325+ MHz;; KY-QRP Net suspended;; Fayette County ARES Net at 8:30 PM on the 147.940 repeater and PL Tone of 88.5
- Wed 9 Open Rag chew Net 8:00 pm 146.760 neg offset no PL tone;; Wilderness Trail Emer Net, 8:30 pm, freq. 146.715, PL 100; Six Shooters Net, 9:00 PM on 52.525 MHz FM (vertically polarized);
- Thu 10 Jessamine Cty ARES Net, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control.
- Sat 12 Shack closed; Open Rag chew Net 9:00 am 146.760 neg offset no PL tone
- Sun 13 Amateur Television & Specialized Communications Net, 9:00 PM (146.760 Repeater); District 11 Skywarn Net, 8:00 PM, 146.925 PL-79.7 Hz) linked to 147.180 (PL-74.4 Hz) linked to 147.180 (PL-74.4) and other repeaters in the area.
- Mon 14 District 11 ARES Net 9:00 PM 146.925 (PL-79.7) linked to 147.180 (PL-74.4) and other repeaters in area.
- Tue 15 Amateur Swap Net 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern 443.325+ MHz; KY- QRP Net suspended Fayette County ARES Net 8:30 pm on the 147.940 repeater with a PL tone of 88.5
- Wed 16 Open Rag chew Net 8:00 pm 146.760 neg offset no PL tone; Wilderness Trail Emer Net, 8:30 pm, freq. 146.715, PL 100; Six Shooters Net, 9:00 PM on 52.525 MHz FM (vertically polarized);
- Thu 17 Jessamine Cty ARES Net, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control.
- Sat 19 Shack closed; Open Rag Chew Net 9 am 146.760 neg offset and no PL tone
- Sun 20 Amateur Television & Specialized Communications Net, 9:00 PM (146.760 Repeater); District 11 Skywarn Net, 8:00 PM, 146.92 (PL-79.7 Hz) linked to 147.180 (PL-74.4 Hz)\
- Mon 21 District 11 ARES Net 9:00 PM 146.925 (PL-79.7) linked to 147.180 (PL-74.4) and other repeaters in the area.
- Tue 22 Amateur Swap Net 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern, 443.325+ MHz. KY-QRP Net suspended; Fayette County ARES Net at 8:30 PM on the 147.940 repeater and PL Tone of 88.5
- Wed 23 Open Rag chew Net 8:00 pm 146.760 neg offset no PL tone; Wilderness Trail Emer Net, 8:30 pm, freq. 146.715, PL 100; Six Shooters Net, 9:00 PM on 52.525 MHz FM (vertically polarized);
- Thur 24 Jessamine Cty ARES Net, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control
- Sat 26 Shack closed; Open Rag chew Net 8:00 pm 146.760 neg offset no PL tone
- Sun 27 Television & Specialized Communications Net, 9:00 PM (146.760 Repeater); District 11 Skywarn Net, 8:00 PM, 146.925 (PL-79.7 Hz) linked to 147.180 (PL-74.4 Hz)\
- Mon 28 District 11 ARES Net 9:00 PM 146.925 (PL-79.7) linked to 147.180 (PL-74.4) and other repeaters in the area.
- Tue 29 Amateur Swap Net 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern, KY-QRP Net suspended; Fayette County ARES Net 8:30 PM 147.940 with a PL tone of 88.5
- Wed 30 Open Rag chew Net 8:00 pm 146.760 neg offset no PL tone; Wilderness Trail Emer Net, 8:30 pm, freq. 146.71 PL 100 ; Six Shooters Net, 9:00 PM on 52.525 MHz FM (vertically polarized);