



ARRL Standard



Pray for our  
Troops



God Bless America!

# QUA / HAMnews

November  
2018

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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: [k4kjq@bluegrassars.org](mailto:k4kjq@bluegrassars.org)

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>.

### -- THE PROGRAM FOR THE NOVEMBER MEETING . . .

. . . will be a report by the nominating committee for the upcoming election of officer for 2019. See below.

### Call for Candidates

### -- FOR ALL OFFICER POSITIONS --

QST All Bluegrass Amateur Radio Society, Inc., members.

It is time to elect officers for the 2019 year. We are looking for any nominations for those that would like to lead the club for the upcoming year. The floor is open for nominations.

Contact **Bill Weaver/WE5P** (weaverwf@usermail.com), **Michael Saulsbury/WB0JZO** (mri22@hei.net) or **Bart Breeding/KB4FEE** (aratat291@twc.com) to have your name considered.73, Bill - WE5P



"Our Cause is Noble; It is the Cause of Mankind!!"

~ **President George Washington**

**-- NOTE: REPORTS OF THE RECORD OF THE BYLAWS COMMITTEE MEETINGS AFTER THEIR REPORT #3 ARE NOT PUBLISHED IN THE NEWSLETTER DUE TO THE LENGTH OF THE MANUSCRIPTS. CONTACT SECRETARY CAMPBELL TO OBTAIN RECENT MEETING RECORDS, OR CONTACT ME FOR A COPY OF THE REPORTS ISSUED BY THE COMMITTEE (billdit@twc.com) --**

QUA/HAMnews

November 2018

## Meeting Notice

**Bill De Vore/N4DIT**,  
Chair, Newsletter Committee  
Bluegrass ARS, Lexington, Kentucky

The regular meeting of the Bluegrass Amateur Radio Society, Inc., will be held November 5 2018, 7:30 PM, meeting room "B" in the Red Cross Building, 1450 Newtown Pike, Lexington, Kentucky. The program for the meeting will be presented by the nominating committee. They will present the candidates for office for 2019.

Many thanks to **Bill Weaver/WE5P**, **Bart Breeding/KB4FEE**, and **Michael Saulsbury/WB0JZO** for their efforts in talking with and convincing members to put their names on the ballot for officers for 2019. They were successful in convincing a few members, as evidenced by the ballot all members who have paid dues for 2018 will receive in the mail. Be sure to thank them the next time you see them, or hear them on the air.

And as I wrote last month, hopefully some interesting discussions will follow the committee's report: some suggestions for discussion may be: a report by **Bill Weaver/WE5P** on his slow speed CW net sessions and/or about his wire antenna for 160 meters; **David Richardson's** efforts in coordinating a Winter Field Day at the Horse Park's primitive camping area, **Bill Cotter/N4LG's** list of active two-meter and 70-centimeter repeaters in central Kentucky. Do you know of more or have information on those repeaters Bill lists? Do you have something you would like to discuss? Bring it to the Club meeting and start a discussion.

Do you have a topic you would like a program on or a program you would like to present? Do you have a homebrewed 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 meeting, someone present will probably have an answer for you.

If you have a program you would like to hear or a topic you would like to present, contact **James Schlessler/WA9MED**, during a Club meeting, or contact him at (757) 478-2186, or e-mail to <wa9med@jschlessler.com>. ♦

## Board of Directors' Meeting

**Bill De Vore/N4DIT**, Chair,  
Newsletter Committee  
Bluegrass ARS, Lexington, Kentucky

The Board of Directors of the Bluegrass Amateur Radio Society, Inc., will meet Monday, November 19, 2018, at 7:30 PM in the Education Center, basement of the Red Cross Building, 1450 Newtown Pike.

Board meetings offer you the members, or anyone having an interest in amateur radio or public service, a forum to present your ideas, requests, congratulations or complaints to the officers and committee chairs of the Club. We always are in need of persons to share their expertise in a special area or to share an experience or activity by presenting a program at the Club's regular monthly meeting, or to make suggestions for program topics. Anyone wishing to present a program or who has suggestions for programs, should talk to **James Schlessler/WA9MED**, during a Club meeting, or contact him at (757) 478-2186, or e-mail to <wa9med@jschlessler.com>.

To attend the board meeting, enter the Red Cross building through the basement entrance on the left end of the building as you stand facing the front of the building. Follow the stairway down into the basement and into the Education Center adjacent to the Club shack. ♦

## October Club Meeting

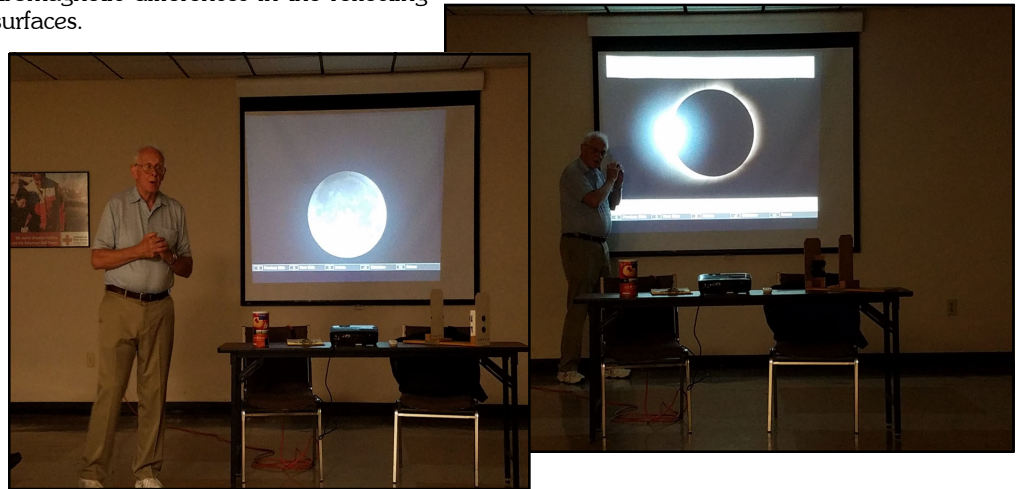
### Dale Covington/K4GSX – “Studying Solar and Lunar Eclipses with Homebrew Optical Projectors and Ham Radio Gear”

The program was presented by **Dale Covington/K4GSX**, Marietta, Georgia. Subject of Dale’s presentation was a discussion of studying solar/lunar eclipses using his specialized optical and ham radio equipment. Dale commented in a note to a colleague back home that: “Members of the Bluegrass Amateur Radio Society in Lexington, KY and I had a good time at their October 1st meeting last night discussing the recent solar eclipse last August a year ago and the lunar eclipse in January this year. Quite a number of questions were asked following my talk, for example: Bill DeVore, N4DIT, who has edited the club’s newsletter for years, raised the interesting question about whether eme signals from the cooler surface of the Moon in eclipse would be any different from signals reflected from illuminated lunar surfaces? The only physical mechanism behind this that I could imagine would be reflection properties different because the Moon’s illuminated surfaces might be more conductive because they are significantly warmer than the lunar surfaces in shadow. What does your eme experience suggest on this point?”

Dale noted in another post that the 1000’ dish at Ariceibo has a beam width of about 0.15 degrees at 430 MHz. Since the lunar disk has an angular width of 0.5 degrees, one at Ariceibo could scan the lunar surface at the Moon’s first or last quarter or waxing/waning gibbous and directly measure any electromagnetic differences in the reflecting properties of its dark and illuminated surfaces.

I’m wondering if there is not some equivalent depth below the surface in operation for reflecting radio waves. If so, then the temperature right at the surface of lunar soil that is not perfectly conducting might be quite different than some distance below. Actually, I was drawing this kind of equivalence in principle from my VSWR studies years ago of the frequency of resonance for inverted V antennas as a function height of the antenna’s feedpoint above ground. Actually, others 40 or 50 years before then had already been studying changes

(Continued on Page 3)



## Program Schedule for 2018

**James Schlessler/WA9MED**, Chair, Program Committee  
Bluegrass ARS, Lexington, Kentucky

The following programs are scheduled for 2018. Your input and suggestions for programs for 2018 are needed. Call **James Schlessler/WA9MED** at (757) 478-2186, or e-mail to <wa9med@jschlessler.com>.

Month	Topic	Presenter(s)	Comments
✓ January	“Winter Field Day, January 27-28, 2018”	<b>David Richardson, W9KHZ.</b>	
✓ February	“Software Defined Radio (SDR)”	<b>James Schlessler/WA9MED</b>	What Programs Would You Like to Hear?
✓ March	“Severe Weather Identification and Reporting”	<b>Joe Sullivan/KC7ITG</b>	of the NWS, Louisville
✓ April	“Design and Construction/Use of an Eggbeater Omnidirectional Antenna”	<b>James Schlessler/WA9MED</b>	
✓ May	Members’ Discussion, “How I Became Interested in Amateur Radio, Getting Licensed”		
✓ June	“Field Day”	(Presenter Pending)	Site location, preparation, operating stations, etc.
✓ July	Open		
✓ August	Hamfest	<b>Dave Richardson/W9KHZ</b> and <b>Fest Committee</b>	Location, preparation, tickets, tables, work crews, etc.
✓ September	Annual Family Picnic	<b>Fun, Food, Conversation</b>	Picnic Shelter #2, Shillito Park, Lexington
✓ October	“Studying Solar and Lunar Eclipses with Homebrew Optical Projectors and Ham Radio Gear”	<b>Dale Covington, K4GSX</b>	
November	Report of Nominating Committee		
December	Annual Auction	<b>J.B. Young</b> will serve as auctioneer to see if he can get you some cash – Bring your items	

**October Club Meeting***(Continued from Page 2)*

changes in the resonance of an antenna as a function of the dryness/wetness of the ground beneath.

Dale's studies of radio wave propagation, reflection, etc., are very interesting and he anticipates another program for us to learn from and enjoy sometime in the not-too-distant future. I for one am looking forward to it. ♦

**Lexington Area Slow Speed Net**

**William Weaver/WE5P**, Member,  
Bluegrass ARS, Lexington, Kentucky,  
weaverwf@usermail.com  
Saturday, October 20, 2018

(In case you did not receive Bills post on the BARS listserv, or on Bluegrass ARS Facebook Group, is his post. .N4DIT)

As a refresher, the purpose of the Lexington area slow speed CW net is to introduce beginning CW operators to on-air QSOs with local operators that they know and can receive feedback from before they work up the courage to step out into the wild and call their first CQ on the HF bands.

My plan is to hold this net on the 10 meter tech phone band (28.400 MHz) to facilitate voice instruction and interaction with the beginners.

I'd like to begin with a voice-only first session to get a handle on the participation and possibly a discussion on how we move forward. I will activate K4KJQ from the BARS shack. Beginners and mentors wishing to participate please join in at 2300Z (7:00 PM) tomorrow evening (10/21). Any one unable to get on the air but wishing to participate is welcome to join me at 1450 Newtown Pike. The entrance is on the left side of the building and down the steps to the basement.

The first "test" meeting of the Lexington Slow Speed net met at 2300Z on 10/21. There were 4 check-ins and 2 reports via email. Net control at K4KJQ was running 100W into the endfed wire.

Check-ins: AI4SR, KJ4YSY, KB4QNR, N4HT.

Signals were a bit lighter than expected around Lexington and coverage to adjoining counties was weak (as expected/feared). KB4UXC reported (via email) very weak copy in Lawrenceburg and passed along a similar report from Mercer county. We had a suggestion come in to try 6 meters as an alternative. Ground wave propagation might be better

Have you been wanting to get on the air but don't have a rig? How about operating in a HF DX or VHF/UHF contest? The shack is open most Saturday mornings, 9:00 AM until Noon, so come on out! Arrangements can be made for other times. Telephone the shack at 231-0974.

at that frequency.

It may take a while, but we'll come up with a solution that will accommodate all those wishing to participate.

To be successful we will need those wishing to participate to be vocal! If you want to participate but can't, why not? You can't copy the net? You need help setting up a station/antenna? You have a station set up but you can't work the frequency of the net session? Things move too fast for you and you need more off air work? It's simply a bad time for you? Please, whatever the issue, speak up via the lists, facebook or email one of the mentors direct. We can find a solution. My email address is we5p <at> arrl.net substituting @ for the <at>.

As we gather input and decide how to move forward, I will take the role of corresponding secretary and communicate thoughts and plans to those interested.

73 de Bill - WE5P ♦

**Testing Longwire on 160m**

**William Weaver/WE5P**, Member,  
Bluegrass ARS, Lexington, Kentucky,  
weaverwf@usermail.com,  
Sunday, October 21, 2018

Saturday night Harry/N4HT and myself exercised the newest antenna, the longwire constructed by Mike/WBØJZO. Below are the results of a few hours of leisurely activity. The antenna performed quite well with the furthest contacts being into the Caribbean (Virgin Islands) and the desert Southwest.

A cut and pasted report from N1MM on the results follows:

Operator Category: MULTI-ONE  
Band: 160m  
Power: LOW  
Mode: CW  
Country: UNITED STATES  
ARRL Section: KY  
Software: N1MM Logger+  
1.0.7300.0

Band	QSOs	Pts	Pt/Q
1.8	113	368	3.3
Total	113	368	3.3
Score:	368		

Rig: Pete's Icom  
Antennas: Endfed longwire  
Soapbox: Worked as K4KJQ at the BARS shack. ♦

**Hearing the Speed of Light - DX Double Echo**

**Greg Cross/W8FJK**,  
Member, Bluegrass ARS,  
Lexington, Kentucky

(NOTE: When copying and pasting, be sure to remove the extra spaces I have added to the long addresses so they will be readable in this colmnar format. .N4DIT)

Ever heard your own signal come back to you? How about multiple echoes of a signal you are listening to? Check out the audio player on this web site:

<<https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fswling.com%2Fblog%2F2013%2F10%2Fhearing-the-speed-of-light-dx-double-echo%2F&data=02%7C01%7Cbars%40lsv.uky.edu%7C7ae6fe4ef1b0470ec3f708d63750e0a6%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636757217840555723&sd=sAPajqePUvSd2U6QP6rRQyANe4esqjES0if1NJcDt8w%3D&reserved=0>>

Another interesting recording can be heard here:

<<https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fsoldersmoke.blogspot.com%2F2014%2F08%2Fstrange-echo-on-china-radio.html&data=02%7C01%7Cbars%40lsv.uky.edu%7C7ae6fe4ef1b0470ec3f708d63750e0a6%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636757217840555723&sd=yhL8g3wVNkrq6Q7XtJHTtQuotJR1DLiQjQ05UW6kfXw%3D&reserved=0>>. ♦

**Microsoft Suspends Windows 10 Fall Update 1809**

**Nick Molnar/N4VJM**,  
October 7, 2018

Hi Guys,

I just saw this and I'm forwarding it to my contacts and friends as a warning and heads-up.

<<https://www.howtogeek.com/fyi/microsoft-pulls-the-windows-10-october->

2018-update-for-deleting-files/>

Microsoft rolls out their Win 10 updates twice a year, Spring and Fall. The latest started rolling out this past week. There have been reports of people losing data after the update and now Microsoft is halting the roll-out until they can find the problem. The way they roll-out the updates is to send them to the newest, most current computers and laptops first, then to slightly older machines until they get to the oldest PCs with Win 10.

In this case those with the newest machines and those folk who pull the update down manually, are basically the unlucky guinea pigs. If you are either and have experienced lost data, contact Microsoft and stop using the device. Any chance of recovering what was lost is greatly reduced if you continue to use the machine after discovery of the loss. The article gives more info, please read it. Thanks and Good Luck! ♦

## Opinion

### ARRL's "Confidentiality vs. Transparency" Emergency

**Bill Cotter/N4LG**  
<n4lg@QX.NET>,  
October 6, 2018,  
via BARS ListServ

(EDITOR'S Note: The Great Lakes Division does not have an election this fall. . .this opinion is reprinted here for your info only to keep you abreast with League happenings. . .N4DIT)

ARRL members:

It appears that there will be a showdown at the direction of the ARRL this voting season. Members are trying to change the politics of ARRL from the current "Confidentiality" (private-corporation) model to a "Transparency" (nonprofit) model.

We all have a stake in the outcome, as the current model is driven by the voices of a handful of officers, and not by the wishes of the membership.

73, Bill N4LG

<<https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fperens.com%2Fstatic%2FARRL%2FTransparencyOctober2018.html&data=02%7C01%7Cbars%401sv.uky.edu%7C8d62eb00fc504dbb08d308d62b93b6f4%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636744310763042095>

**Andy Rooney** wrote that . . .

*"If you smile when you are alone,  
then you really mean it."*

&data=xzCDRIap7QtDCrWUVI%2FmK8jJ9U0FzMXWO%2FI sD2OlwQg%3D&reserved=0>

Below is a reprint of ARRL member's "Confidentiality vs. Transparency" Emergency: Rescue ARRL posting on the Internet:

"We need your help! Please pass this message on to other Radio Amateurs, until November 2018.

"You've probably heard of problems at ARRL over the past year. We are writing to inform you of a series of events at ARRL, and to ask you to vote for these director candidates to put ARRL back on track, making it a more transparent organization that represents its members properly. Please visit their web sites:

Central: Valerie Hotzfeld NV9L  
Hudson: Ria Jairam N2RJ  
New England: Fred Hopengarten K1VR  
Northwestern: Michael Ritz W7VO  
Roanoke: George "Bud" Hippisley W2RU

The rest of us should be talking with our friends in those divisions. ARRL represents every U.S. ham to government and elsewhere, and is the International Secretariat of IARU, representing all hams worldwide. Thus, every ham, everywhere, has a stake in the operation of ARRL, and a right to see this calamity resolved.

In 2016, ARRL had corporate attorneys provide a director and officer code-of-conduct. This code was designed for a for-profit corporate board, and stressed confidentiality, just the wrong thing for a nonprofit board that should be representing its members! The ARRL board majority, including every incumbent in this election; voted this code, officially called the ARRL Policy on Board Governance and Conduct of Members of the Board of Directors and Vice Directors, into the bylaws in January, 2017.

"The code required that directors act to the membership as a unanimous bloc and prohibited dissent from board decisions in their public speech, even if they voted against those decisions. It even restricted directors from discussing the results of votes until ARRL officially announced them.

"By suppressing reports of their own dissent by ARRL directors, this new policy deprived you, the membership, of control

of ARRL. It made it very difficult for the membership to understand what a director stands for, and thus to have the knowledge necessary to vote for them. Even discussing your own division director's decisions with them will be difficult, if they aren't allowed to disclose their own opinions.

"At the 2017 International DX Convention (Visalia) ARRL Forum, ARRL Southwestern Division Director Dick Norton N6AA got up on stage and told us about all of this. That was the first time that most hams heard about the new director and officer code.

"For Dick's efforts to inform us, the members, he was publicly censured by ARRL, with the censure published on the front page of the ARRL web site and in the ARRL Letter. An open letter from NCCC to ARRL claims the reasons given for the censure were inaccurate and that there was no issue with Director Norton's conduct. Many of us feel that ARRL's censure was defamatory.

"You can watch Dick's polite and eloquent discussion at the Visalia ARRL forum in 2018, a year after the event leading to his censure: Part 1, Part 2. At that meeting (and probably others), Dick stated that the ARRL board was divided between a confidentiality bloc that wished to retain the terms preventing directors from expressing public dissent, and a transparency bloc which wished to keep the membership more in the loop of ARRL decisions, allowing directors to speak freely.

"In December 2017, ARRL's Executive Committee proposed a set of amendments to facilitate punishing or expelling directors and officers who "got out of line" by publicly dissenting with a board decision. There does not appear to have been any plan to inform the membership of this proposal until it had been voted upon at the January, 2018 board meeting. Fortunately, the proposed text was leaked, resulting in a great outcry by the already-inflamed membership. The changes have been withdrawn, but only for now. The board voted to create a white paper explaining the changes to the membership (which they have failed to produce), and to bring them up for a vote again at a later date.

"A second proposal was made, about the same time, by Hudson Division director Lisenco: this would add four new voting members of the board who would not be directly elected by the membership, further reducing the representative democracy of ARRL. After membership outcry, this proposal was shelved.

"After Dick's censure, the revelation of the confidentiality terms, and outcry over

the additional rule proposals, it became clear to ARRL that the membership was upset. Disgruntled members struck straight at ARRL's pocketbook: At the Nevada ARRL convention's ARRL forum, it was reported that ARRL had lost a bequest in excess of one Million dollars in reaction to the confidentiality issue, and that many members had declined to renew. But ARRL did not handle dissent among its own membership well. In January 2018, ARRL president Rick Roderick wrote to hams accusing transparency advocates of an "organized misinformation campaign", only to be contradicted by his own board just days later, when they agreed to review the code of conduct, temporarily suspending some of its worst provisions while leaving equally bad ones in place.

"At the ARRL Donor Reception during Hamvention, a private affair they hold for significant financial benefactors; Rick Roderick addressed the donors regarding the transparency issue, saying "we hear you". In discussion with Roderick and several directors in the ARRL booth, we were told that they had obtained a new code of conduct from a national organization supporting nonprofit organizations. They promised to present it to the membership in August.

"But the ARRL board broke that promise. August came and went, and the board has no proposed text to reform the director and officer code. They have agreed that no revision will be considered until after the October 20 executive committee meeting.

"The deep split on the ARRL board became further apparent over the process leading to the election of a new CEO. The directors had been presented with only one final candidate by the selection committee, the night before the vote, and no information on other top candidates. There was a motion to delay the vote until the directors had time to research the candidate they were presented with, and other potential candidates. This failed by just one vote, and ARRL president Rick Roderick has refused director requests to disclose the individual votes. We believe that the six directors who voted to delay the CEO vote all subsequently voted against accepting the new CEO.

"Subsequently the confirmation of the new CEO was voted upon, with Mr. Carlson, Holden, Norris, Williams, Lisenco, Blocksme, Pace, Boehner, and Allen voting Aye and Mr. Abernethy, Frenaye, Tiemstra, Sarratt, Norton and Woolweaver voting Nay. The motion passed 9:6. It is believed that the aye voters are mostly

of the confidentiality bloc and the nay voters mostly of the transparency bloc. But the most serious issue is that the ARRL board was split on the election of its new CEO. A position like this should be the result of a nearly-unanimous vote of the directors, or it should not be filled at all.

"And that's where we are today. ARRL's board is divided into a transparency bloc and a confidentiality bloc, with the confidentiality bloc in the majority and the proposal for four officers to gain the vote potentially adding more votes to that bloc. The members are not currently represented as they should be, due to the continued application of a policy meant for a for-profit corporate board. The only whistle-blower on the board was publicly castigated for informing us. The currently-suspended rules that go against the member's interest are temporarily suspended, and could be restored. Shelved governance proposals and possible new ones adverse to the interests of the membership wait in the wings for possible action next January. Who do you want casting the votes on these proposals?

"We can defuse this situation and restore proper member representation in ARRL by electing five new directors who stand for transparency, thus removing the power of the confidentiality bloc. The transparency candidates are:

Central: Valerie Hotzfeld NV9L  
Hudson: Ria Jairam N2RJ  
New England: Fred Hopengarten K1VR  
Northwestern: Michael Ritz W7VO  
Roanoke: George "Bud" Hippisley W2RU

ARRL members in those divisions will receive their ballots within days. Please vote, and please support the candidates above.

Signed:

Bruce Perens, K6BP: One of the founders of the Open Source movement in software, an ARRL Diamond Club Platinum member; pioneer of embedded Linux and the modern Linux distribution, initiator of the Codec2 project and evangelist for Codec2 and FreeDV, founder of No-Code International, which led the successful fight for the end of the Morse Code examination as a prerequisite for Amateur licensing. <bruce@perens.com>.

Bob Famiglio, K3RF: Past Vice Director 2015-17 - ARRL Atlantic Division.

Robert A. Wilson, N6TV: ARRL Life Member.

Michelle Thompson, W5NYV: ARRL Life Member. Lead engineer of the Phase 4

Ground project, creating a digital Amateur satellite communication system.

Jim Talens, N3JT: Diamond Club and Life Member of ARRL.

Rick Tavan, N6XI: Maxim Society and Life Member of ARRL.

Jay Maynard, K5ZC: Life Member of ARRL, Past president: National Frequency Coordinators Council; Chairman, Minnesota Repeater Council; past ARRL vice director candidate. ♦

## CubeBel-1 Launch Information

<http://bsusat.com>

CubeBel-1 (BSUSat-1) is scheduled for Launch on 29, October 2018 from Jiuquan Satellite Launch Center (NW China) with CFOSAT.

CubeBel-1 is a 2U CubeSat, developed by a team of students and young scientists of Belarusian State University.

The satellite will serve as a basis for various aspects of the aerospace educational and research programs at the university. In the context of practical courses, students will learn to receive and process telemetry and satellite imagery, to test various stabilization algorithms, calculate orbital elements, to study gamma spectra at low Earth orbit, etc. Students will study also the radio systems of amateur satellites and get an idea of amateur radio. The satellite has been equipped with a digital repeater for the purpose of the amateur radio community.

IARU Amateur Satellite Frequency Coordination:

<[http://www.amsatuk.me.uk/iaru/finished\\_detail.php?serialnum=577](http://www.amsatuk.me.uk/iaru/finished_detail.php?serialnum=577)>

The Orbitron notes:

NAME: CubeBel-1 / BSUSat-1

LAUNCHED: 2018/10/29 by CZ-2C



**CubeBel-1 (BSUSat-1)**

rocket  
 SITE: JSLC (China)  
 DNLINK: 436.200 FM (9k6 GMSK,  
 Digipeater)  
 UPLINK: 436.200 FM (4k8 GMSK  
 MOBITEK, Digipeater)  
 BEACON: 436.990 FM (9k6 GMSK,  
 Telemetry)  
 CALL SIGN: EU10S  
 NOTES: 2U CubeSat, developed by  
 students and young scientists from  
 Belarusian State University  
 UPDATED: 2018/10/20

It is planned that the CubeSat will begin  
 to transmit telemetry after 01:21 UTC with  
 time intervals from 40 sec to 180 sec in  
 dependency of battery state.

Preliminary TLE:

CubeBel-1

1 99992U 18992X 18302.03574537

*"By three methods we may learn wisdom: First, by reflection, which is noblest; Second, by imitation, which is easiest; and third by experience, which is the bitterest."*

~ Confucius

.00001954 00000-0 81824-4 0 1230  
 2 99992 97.5255 271.9463 0003881  
 127.0729 37.5224 15.14680732 14

The help of the amateur radio community is very important for the CubeBel-1 team. Our team asks observers to listen for the FM telemetry beacon on 436.990 MHz and send reports to <eulxx.ko33ru@gmail.com>. The received telemetry could be sent to the project's website <<http://bsusat.com>>. ♦

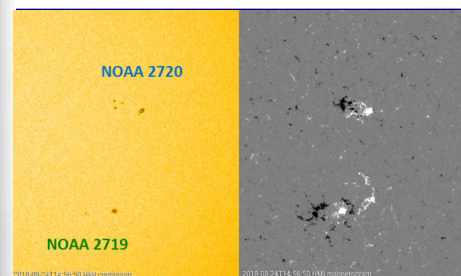
## Cycle 25? Not Quite Yet...

<http://cqnewsroom.blogspot.com/>

There's been some hopeful excitement among sunspot watchers that a group of sunspots observed in late August with reverse magnetic polarity to most of the solar cycle 24 sunspots might signal the start of cycle 25. However, the ARRL Letter says the Royal Observatory of Belgium's Solar-Terrestrial Centre of Excellence has splashed cold water on that theory (the water vaporized instantly, of course!).

The center noted that while the magnetic polarity of sunspots typically reverses with a change of cycle, spots from a new cycle also need to originate in the mid-solar latitudes, "typically 20° to 40° from the equator." The sunspots in this group were observed at only about 8° solar latitude. The center says every sunspot cycle has several dozen reverse polarity sunspots that are identified with the current cycle despite being magnetically "upside-down."

So we'll have to keep waiting... (but keep listening and keep calling CQ. There are lots of band openings, even during solar minimum, that are missed because everyone thinks they won't be there! – ed.)



Solar Dynamics Observatory photos of sunspot groups 2720 and 2719 last summer. The white areas indicate a positive magnetic field while the black areas are negative. Normally, they are opposite of each other on different sides of the solar equator (in the center of the photo), but group 2720 was reversed. This is sometimes a sign of a new solar cycle. However, the Royal Observatory of Belgium says these sunspots were too close to the equator to indicate the start of cycle 25. (NASA SDO Image)

## The K7RA Solar Update

*"The ARRL Letter,"  
 November 1, 2018*

**Tad Cook, K7RA**, Seattle, reports: Another week passed with no sunspots. The average daily solar flux declined from

## Schedule for Volunteer Examinations in 2018

**Harry Sparks/KN4S,\***  
 Bluegrass Volunteer Examiners,  
[kn4s@kn4s.com](mailto:kn4s@kn4s.com)

The exam schedule for 2018 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 1450 Newtown Pike Lexington KY 40509	Clark County EOC 200 Maryland Ave Winchester KY 40391	Amer Legion Post 46 45 Spears Lane Danville KY 40422	Georgetown Police Dept 550 Bourbon Street 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@arrrl.net](mailto:ke4mai@arrrl.net), 859-652-3393

([www.bluegrassars.org](http://www.bluegrassars.org))

Danville – Liaison **John Wulf/K4FT**, [johnk4ft@gmail.com](mailto:johnk4ft@gmail.com), 563-505-0339, Wilderness Road ARC, <http://www.wrarc.com>

Georgetown – Liaison **Ron Malinowski/WX4GPS**, [wx4gps@arrrl.net](mailto:wx4gps@arrrl.net), 502-542-8252

**WCARS VEC:** Lexington – Liaison **Margueritte Williams/KE4MAJ**, [ke4maj@arrrl.net](mailto:ke4maj@arrrl.net), 859-489-6274 ([www.bluegrassars.org](http://www.bluegrassars.org))

**W5YI VEC:** Winchester – Liaison **Darrell Epperson/AC4YD**, [eppersond@aol.com](mailto:eppersond@aol.com), 859-771-1834

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

Date and Time	VEC	Location
Saturday, <b>November 10</b> , 2018 10:00 AM	ARRL	Lexington
Saturday, <b>December 8</b> , 2018 10:00 AM	ARRL	Georgetown
Tuesday, <b>December 11</b> , 2018 17:00 PM	WCARS	Lexington

\*Additional exam locations, dates, times are listed at website [kn4s@kn4s.com](mailto:kn4s@kn4s.com)

70.4 to 68.6. Geomagnetic indicators were quiet, up only slightly over the previous 7 days. The planetary A index rose from 3.3 to 4.4, and middle latitude A index from 2.1 to 3.4.

Solar activity will probably bottom out in the next couple of years, but where are we compared to the previous solar minimum? For October, the average daily sunspot number was only 4.5. The average October sunspot numbers for 2007 - 2018 were 1.3, 5.2, 7, 35, 116.9, 73.8, 127.2, 92.1, 59.6, 29.1, 12.9, and 4.5. So, it appears we are at about the same level of activity today.

Predicted solar flux for the short term is

**Andy Rooney** wrote that . . .  
*"Making duplicate copies and computer printouts of things no one wanted even one of in the first place is giving America a new sense of purpose."*

69 on November 1 - 7; 70 on November 8 - 17; 69 on November 18 - 19; 68 on November 20 - December 2; 70 on December 3 - 14, and 69 on December 15.

The predicted planetary A index is 5 on November 1 - 2; 23, 20, 16, 12, and 8 on November 3 - 7; 5, 12, 8, and 10 on November 8 - 11; 5 on November 12 - 13;

12 on November 14; 5 on November 15 - 24; 8, 12, and 10 on November 25 - 27; 5 on November 28 - 29; 20 on November 30; 15 on December 1 - 3; 8, 5, 12, 8, and 10 on December 4 - 8, and 5 on December 9 - 15.

Sunspot numbers for October 25 - 31 were 0, 0, 0, 0, 0, 0, and 0, with a mean of 0. The 10.7-centimeter flux was 69.4, 69.2, 69.3, 68.3, 68.8, 67.1, and 68.1, with a mean of 68.6. Estimated planetary A indices were 6, 6, 4, 4, 3, 4, and 4, with a mean of 4.4. Estimated mid-latitude A indices were 5, 6, 3, 2, 1, 4, and 3, with a mean of 3.4.

Share your reports and observations. ♦



## It's the Rule

### FAA Reauthorization Act of 2018 Overhauls Marking Requirements for Short Rural Towers

*"The ARRL Letter,"*

**Rick Lindquist/WV1ME**, Editor, October 11, 2018

Thanks to ARRL efforts on Capitol Hill, language in the 2018 Federal Aviation Administration (FAA) Reauthorization Act, signed by President Donald Trump, resolves the issue of problematic or preclusive rules affecting some rural Amateur Radio towers. The previous FAA Reauthorization Act of 2016 had instructed the FAA to enact tower-marking requirements, similar to those in some state statutes, aimed at improving aircraft safety in the vicinity of meteorological evaluation towers (METs). These towers are typically between 50 and 200 feet and set up in rural areas, often on short notice. In the wake of fatal crop-dusting aircraft collisions with METs, the National Transportation

Safety Board (NTSB) had recommended that states institute laws, sometimes called "crop-duster" statutes, requiring marking and registration of METs. While some state crop-duster laws exempted ham radio towers, federal regulations dating to the 1996 FAA Reauthorization Act did not, and ARRL had expressed its concerns since.

"There is no evidence whatsoever that even one Amateur Radio antenna below 200 feet has ever been involved in an aviation accident," ARRL General Counsel **Chris Imlay, W3KD**, said. "To impose painting and lighting requirements on Amateur Radio antennas between 50 and 200 feet tall would preclude many, if not most, of the urban, rural,

and, in some cases, suburban Amateur Radio antennas that are and will be sited outside incorporated towns and cities. This would ironically defeat the entire reason such antenna facilities are sited in those environments: because rural and exurban areas are where such antennas are permitted and the few areas where antennas are not precluded entirely by private land use regulations."

Prior to 2017, per long-established FAA regulations, unless such short radio towers were located within the glide slope of airports or heliports, they were not required to be painted or lighted. ♦

(Full report at <<http://www.arrl.org/arrlletter/?issue=2018-10-11>>)

### FCC Cracks Down on Uncertified VHF/UHF Gear, With Hams Caught in the Middle

*Discussion in "Amateur Radio News,"*

started by **Fred Lloyd/AA7BQ**,

9 October 2018

The FCC has issued a broad warning to importers, retailers and users of certain "low-cost two-way VHF/UHF radios that do not comply with the FCC's (equipment certification) rules . . . and are frequently imported into the United States." These include some brands and models that are popular among hams. The FCC points out that devices that operate "only on frequencies that the FCC has allocated for use by Amateur Radio Service licensees, it does not require FCC

equipment authorization, and an amateur licensee may use his or her license to operate such radios." However, the same paragraph notes that "If a two-way VHF/UHF radio is capable of operating outside of the amateur frequency bands, it cannot be imported, advertised, sold, or operated within the United States without an FCC equipment certification." (emphasis added)

This leaves hams in a quandary – the traditional FCC view on radios capable of oper-

ating outside the amateur bands has been that they're OK for use within the amateur bands and on authorized frequencies outside the ham bands, such as those used for MARS operation. This new memo, however, suggests that no one, including hams, may legally use these radios at all, if they are capable of operating outside the ham bands. The ARRL says it is in discussions with FCC enforcement officials to try to clarify the situation. ♦

## Where's the Rare DX?

"OPDX Bulletin 1387"

October 29, 2018

<<http://www.papays.com/opdx1387.html>>

**ANTARCTICA (IAØ)** – Danilo/IZ1KHY will be signing IAØ/IZ1KHY til the end of Feb 2019.

**ARMENIA (EK)** – Arsen/EK6SI will operate during the CQWW CQWW DX CW Contest (Nov 24-25) on all bands. QSL via his home CBA direct.

**ARMENIA (EK) --** Ken/EK7DX will operate in the CQWW DX CW Contest (Nov 24-25) on all bands. QSL via info on QRZ.com.

**ARUBA (P4) (SA-036)** – Frank/PH2M will sign P4/PH2M Nov 17-29 on 80-10m using SSB and FT8. QSL via his home CBA, by the Buro, direct, or LoTW.

**BELITUNG ISLAND (OC-144)** – Ops Burkhard/DL3KZA and Irfan/YE4IJ will sign YE4/DL3KZA til Nov 11 on 20/17m (dependent on conditions) using SSB. QSL via DL3KZA.

### BOUVET DXPEDITION NEWS (3YØ)

– The announced band plan, frequencies, and modes they will use:

<<https://www.rebeldxgroup.com>>

<<https://bouvetoya.org/3yoi-bandplan>>

For more details and updates, watch:

<<https://bouvetoya.org>> <<https://www.facebook.com/bouvetoya.org>> <<https://twitter.com/Bouvetoyaorg>>.

**ITALY (IY)** – Listen for special event station IY1EY Nov 3-Dec 31 to commemorate the experiments conducted by Marconi 1919-1936 on CW and SSB and on all bands, including the WARC bands. A special QSL is available via IK1QBT direct.

**KENYA (5Z)** – Scott/WA5A is signing 5Z4/WA5A til Nov 7 on 40/20/15m using mainly SSB. QSL via his home CBA.

**KOSOVO (Z6)** – Ops Jeremy/EI5GM and Dave/EI9FBB will sign Z6/EI5GM and Z6/EI9FBB, respectively, from Kosovo til Nov 5 on various HF bands using CW and SSB. QSL Z6/EI5GM via MØOXO's OQRS. QSL Z6/EI9FBB via his home CBA.

**LIBYA (5A)** – YL Elham, 5AØYL, is on 20m (14280 kHz, 1530-1730 UTC). No other details are available, but we suggest you watch QRZ.com.

**MADAGASCAR (5R)** – Alex/K2BB and Paul/UUØJR will sign 5R8R (TBD) from Nosy Be Is (AF-057) Nov 19-29 on 160-10m using CW, SSB and Digi. Will be in CQWW DX CW Nov 24-25.

**MALAWI (7)** – Susan/W7KFI will sign 7Q7M (and Don, K6ZO/7Q6M), in late Nov for the CQWW DX CW Contest for 8 days on 160-10m but mostly on 20m (14036

## Upcoming Contests

Sean Kutzko/KX9X,

QST, <<http://www.arrl.org/contest-calendar>>.

Nov 1	NRAU 10m Activity Contest, CW/Digi/Phn, <a href="http://www.nrau.net/activity-contests">www.nrau.net/activity-contests</a>
Nov 1	SKCC Sprint Europe, 160-10m, CW, <a href="http://www.skccgroup.com">www.skccgroup.com</a>
Nov 3	IPARC Contest, CW, 80-10m, <a href="http://www.iarc.de">www.iarc.de</a>
Nov 3	Ukrainian DX Contest, CW/Phn, 160-10m, <a href="http://www.urxdc.org/rules.php?english">www.urxdc.org/rules.php?english</a>
Nov 3	ARRL Sweepstakes Contest, 160-10m, CW, <a href="http://www.arrl.org/sweepstakes">www.arrl.org/sweepstakes</a>
Nov 4	IPARC Contest, SSB, 80-10m, <a href="http://www.iparc.de">www.iparc.de</a>
Nov 4	EANET Sprint, All Bands, CW/Digi/Phn, <a href="http://www.fediea.org/news">www.fediea.org/news</a>
Nov 4	High Speed Club CW Contest, 80-10m, <a href="http://www.highspeedclub.org">www.highspeedclub.org</a>
Nov 6	ARS Spartan Sprint, 80-10m, CW, <a href="http://www.arsqrp.blogspot.com">www.arsqrp.blogspot.com</a>
Nov 7	UKEICC 80-Meter Contest, Phn, <a href="http://www.ukeicc.com">www.ukeicc.com</a>
Nov 10	WAE DX Contest, RTTY, 80-10m, Digi, <a href="http://www.darc.de">www.darc.de</a>
Nov 10	PODXS 070 Club Triple Play Low Band Sprint, 160-40m, Digi, <a href="http://www.podxs070.com">www.podxs070.com</a>
Nov 10	10-10 International Fall Contest, Digital, 10m, <a href="http://www.ten-ten.org">www.ten-ten.org</a>
Nov 10	JIDX Phone Contest, 80-10m, Phn, <a href="http://www.jidx.org/jidxrule-e.html">www.jidx.org/jidxrule-e.html</a>
Nov 10	SARL VHF/UHF Analogue Contest, 6m-1296MHz, CW/Phn, <a href="http://www.sarl.org.za">www.sarl.org.za</a>
Nov 10	OK/OM DX Contest, CW, 160-10m, <a href="http://www.okomdx.crk.cz">www.okomdx.crk.cz</a>
Nov 10	SKCC Weekend Sprintthon, 160-6m, CW, <a href="http://www.skccgroup.com">www.skccgroup.com</a>
Nov 10	CQ-WE Contest, 160m-70cm, CW/Digi/Phn, <a href="http://www.cqwe.cbob.org">www.cqwe.cbob.org</a>
Nov 12	4 States QRP Group Second Sunday Sprint, 160-10m, CW/Phn, <a href="http://www.4sqrp.com">www.4sqrp.com</a>
Nov 12	RSGB 80-Meter Autumn Series Data, Digi, <a href="http://www.rsgbccorg/hf">www.rsgbccorg/hf</a>
Nov 16	YO International PSK31 Contest, 80m, Digi, <a href="http://www.yo5crq.ro/Rules.htm">www.yo5crq.ro/Rules.htm</a>
Nov 17	LZ DX Contest, 80-10m, CW/Phn, <a href="http://www.lzdx.bfra.org/rulesen.html">www.lzdx.bfra.org/rulesen.html</a>
Nov 17	All Austrian 160-Meter Contest, CW, <a href="http://www.oevsv.at">www.oevsv.at</a>
Nov 17	REF 160-Meter Contest, 160m, CW, <a href="http://www.concours.r-e-f.org">www.concours.r-e-f.org</a>
Nov 17	Feld Hell Sprint, 160-6m, Digi, <a href="http://www.sites.google.com/site/feldhellclub">www.sites.google.com/site/feldhellclub</a>
Nov 17	RSGB 2nd 1.8MHz Contest, CW, <a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
Nov 17	ARRL Sweepstakes Contest, SSB, 160-10m, <a href="http://www.arrl.org/sweepstakes">www.arrl.org/sweepstakes</a>
Nov 18	Homebrew and Oldtime Equip Party, 80/40m, CW, <a href="http://www.qrpcc.de/contestrules">www.qrpcc.de/contestrules</a>
Nov 19	Run for the Bacon QRP Contest, 160-10m, CW, <a href="http://www.qrpcontest.com/pigrun">www.qrpcontest.com/pigrun</a>
Nov 21	RSGB 80-Meter Autumn Series, SSB, <a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
Nov 22	NAQCC CW Sprint, 80-20m, <a href="http://www.naqcc.info">www.naqcc.info</a>
Nov 24	ARRL EME Contest, 6m-1296MHz, CW/Digi/Phn, <a href="http://www.arrl.org/eme-contest">www.arrl.org/eme-contest</a>
Nov 24	CQ Worldwide DX Contest, CW, 160-10m, <a href="http://www.cqww.com">www.cqww.com</a>
Nov 28	SKCC Sprint, 160-10m, CW, <a href="http://www.skccgroup.com">www.skccgroup.com</a>
Nov 28	UKEICC 80-Meter Contest, CW, <a href="http://www.ukeicc.com">www.ukeicc.com</a>
Nov 29	RSGB 80-Meter Autumn Series, CW, <a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
Nov 30	ARRL 160-Meter Contest, CW, <a href="http://www.arrl.org/160-meter">www.arrl.org/160-meter</a> ♦

kHz), and 40m (7036 kHz). Remember to look for them in the contest. QSL 7Q7M via Susan's on-air instructions. ADDED NOTE: Susan/W7KFI, who is about 83, and was the Skipper of her own sailboat called "USSV DHARMA" stationed in Hawaii. She planned to activate Johnston Island (KH3) in 2011, but had engine problems and then some health issues. She is now living in Gulfport, Ms.

**MICRONESIA (V6)** – Shu/JA1FMN will sign V63PSK from Weno Is (OC-011) Nov 19-2 on 40-15m using JT65, JT9, FT8 and PSK63, 1700-0200 UTC. QSL via JA1FMN, by the Buro, direct, eQSL or ClubLog's OQRS (on Nov. 26).

### REUNION AND MAYOTTE ISLANDS

**(FR & FH) (AF-016)** – (Update) Willi/DJ7RJ will sign FH/DJ7RJ from Mayotte til Nov 6 on 160-10m using CW and SSB. QSL via his home CBA, direct or the Buro. NO LoTW or ClubLog. **Also:** Stefan/DL9HA, will join Willi on Reunion (but not Mayotte) working SSB and FT8.

**SAMOA (5W)** – Ops Hiro/JF1OCQ and Mark/JJ1TBB will sign 5W7X and 5WØTB, respectively, from Apia (OC-097), til Nov 6 on 160-10m using CW, SSB and FT8. Also a side trip to American Samoa (KH8) as W1VX/KH8 and KH8C. QSL 5W7X, 5WØTB and W1VX/KH8 via JF1OCQ, direct, by the Buro or LoTW. QSL KH8C via LoTW only (see QRZ.com).

**SOMALIA (6O)** – Ali/EP3CQ will op-

erate when he has installed his station on SSB (15 and 20m 1800-2000 East Africa Time (EAT). More details forthcoming.

**SRI LANKA (4S)** – Peter/DCØKK will sign 4S7KKG from Moragalla (AS-003, WLOTA 0762) Nov 1-Apr 1 on the digi modes and CW. QSL via his home CBA, direct and by the Buro. All QSOs will be uploaded to LoTW and ClubLog.

**ST. MAARTEN (PJ7) (NA-105)** – Phil/

KØCD will sign PJ7/KØCD during the CQWW DX CW Contest (Nov 24-25) and day before. QSL via his home CBA.

**TANZANIA (5H)** – Maurizio/IK2GZU is now signing 5H3MB til Nov 28 on various HF bands. QSL via IK2GZU direct or by the Buro; also, QSL via LoTW (after his return home) and eQSL. <<http://www.buffoli-pm.it/5h/Tanzania%202011.htm>>, <<http://www.buffoli-pm.it/5h/qs1%20request.htm>>.

**TIMOR-LESTE (4W)** – Tae-su/DS3EXX will be sign4W/DS3EXX from East Timor (OC-148) Nov 25-Dec2 on various HF bands. QSL via his home CBA direct or LoTW.

**ZIMBABWE DXPEDITION NEWS (Z23M)** – Now and until Nov 6 on various HF bands and modes. QSL via IK2VUC. <<http://www.mdx.org/z23md>>, <<http://www.mdx.org/z23md/2018/10/19/cqww-ssb>>. ♦

## Meeting Schedules for Area Clubs, Exam Sessions, etc.

*Bill DeVore/N4DIT*

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 5 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, 7:00 PM in Meeting Room “A” in the Red Cross Building, 1450 Newtown Pike, Lexington. Contact **Margie/KE4MAJ** at 859-489-6274 or email to [ke4maj@arrrl.net](mailto:ke4maj@arrrl.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 2017 schedule (10:00 AM): Saturday, January, 9, Saturday, April 9, Saturday, July 9, and Saturday, October 8. Contact Liaison **Darrell Epperson/AC4YD**, [eppersond@aol.com](mailto:eppersond@aol.com), 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](mailto: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@arrrl.net](mailto:wx4gps@arrrl.net), 502-542-8252, Georgetown Police Dept, 550 Bourbon St., Georgetown (for dates see schedule on page 5 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@arrrl.net](mailto:wa4lav@arrrl.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](mailto:atrose@windstream.net)).

**Fayette County ARES Net** – Wednesday, 9:00 PM, 147.120 (Tone 141.3) 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 8:00 PM six meters FM on 52.525 MHz (vertically polarized). **David Jordan/KI4AWZ** net control; and, Daily Six-Meter FM Ragchew net 7:00-9:00 PM on 52.525 MHz (vertically polarized). **James Peel/KG4VAR** net control.

**KY-QRP** – Meetings are the same schedule as Bluegrass ARS, first Monday each month, but at 7:00 PM, in Meeting Room “B”, second floor of the Red Cross Building, 1450 Newtown Pike, Lexington.

**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 24 meet at City Hall (SkyWarn). Talk-in/info on 145.430 (T-103.5).

**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.

**The Southeast Kentucky ARC** – meet at the Laurel County EOC, 168 Substation St, London. Meetings on odd number months (Jan, Mar, etc.) are on the Second Tuesday at 6:00 PM; meetings on even number months (Feb, Apr, etc.) are the Second Saturday at 11:00 AM. Talk-in on 147.180 (PL-74.4) for directions tor other information. 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, **Bill DeVore/N4DIT**, in care of Bluegrass ARS, Inc., PO Box 4411, Lexington, KY 40544-4411, or e-mail to [billdit@twc.com](mailto:billdit@twc.com).

## Minutes of the Board of Directors Meeting, September 17, 2018

Recorded and submitted by  
**Bruce A. Campbell, KM4EHU**, Secretary

The September, 2018, Directors' Meeting was called to order at 7:30pm by President **Andrew Cook, KF4OWP**.

In attendance were:

First Vice President – **Bill Fuqua, WA4LAV**; Second Vice President – **James Schlessler, WA9MED**; Treasurer – **John Barnes, KS4GL**; Secretary – **Bruce Campbell, KM4EHU**; Director-at-Large – **David Richardson, W9KHZ**. MARS Representatives **Barry Jackson, WB4N**, and **Harvey Frye, AA4HF**, plus **Bill DeVore, N4DIT**, and **Bart Breeding, KB4FEE**, were also present.

Treasurer **John Barnes, KS4GL**, presented one new application for membership for **Ken Fouts** (no license). **David Richardson, W9KHZ**, moved, and **Barry Jackson, WB4N**, seconded for acceptance of the application, which was approved without objection.

Treasurer **John Barnes, KS4GL**, submitted the summary treasurer's report of amounts available in deposits as of August 30, 2018.

Checking account:

General fund: \$10,424.83  
Coax/repeater: \$ 1,164.64  
Education: \$ 1,909.29  
\$13,498.76

PayPal account: \$ 3,029.45  
Savings account: \$ 200.71  
Total balance of accounts:  
\$16,728.92

This amount included the net proceeds from the hamfest admissions, table rentals, door prize ticket sales, and silent auction of donated equipment, after all expenses and sales taxes.

**James Schlessler, WA9MED**, moved, and **David Richardson, W9KHZ**, seconded that the treasurer's report be accepted, which was approved unanimously.

Secretary **Bruce Campbell, KM4EHU**, reported that the Bylaws Committee will not meet on October 1st, and that he will not be able to attend the October 1st General Meeting due to out-of-town travel. He asked that arrangements be made to record the minutes of the General Meeting.

### Committee Reports

**Contest: (Pete Kragh, K2UPD)**. (no report).

## Treasurer's Report

Respectfully submitted, **John Barnes/KS4GL**, Treasurer

### BLUEGRASS AMATEUR RADIO SOCIETY, INC. INCOME, EXPENSES, AND ACCOUNT BALANCES SEPTEMBER 30, 2018

	Checking Account	Pay Pal Account	Savings Account	Total
<b>Income:</b>				
ARRL Dues	0.00	0.00	0.00	0.00
BARS Dues	20.00	0.00	0.00	20.00
Coax/Repeater	0.00	0.00	0.00	0.00
Donations	0.00	0.00	0.00	0.00
Education	0.00	0.00	0.00	0.00
Hamfest	0.00	0.00	0.00	0.00
Interest	2.28	0.00	0.04	2.32
Miscellaneous	0.00	0.00	0.00	0.00
Sales Tax	0.00	0.00	0.00	0.00
<b>Total</b>	<b>22.28</b>	<b>0.00</b>	<b>0.04</b>	<b>22.32</b>

### Expenses:

ARRL Dues	0.00	0.00
Coax/Repeaters	0.00	0.00
Donations	0.00	0.00
Education	0.00	0.00
Election	0.00	0.00
Equipment	0.00	0.00
Field Day	0.00	0.00
Hamfest	0.00	0.00
Insurance	0.00	0.00
Miscellaneous	126.96	126.96
Newsletter	0.00	0.00
Picnic	75.62	75.62
P.O. Box/Postage	0.00	0.00
Sales Tax	0.00	0.00
Subscriptions	0.00	0.00
Telephone	0.00	0.00
<b>Total</b>	<b>202.58</b>	<b>202.58</b>

### Account Balances

	August 30, 2018	September 30, 2018
Checking*	\$13498.76	\$13318.46
Pay Pal Balance	\$ 3029.45	\$ 3029.45
Savings Balance	\$ 200.71	\$ 200.75
<b>Total Balance</b>	<b>\$16728.92</b>	<b>\$16548.66</b>

### \*Fund Specific Balances (Checking)

General	\$10424.83	\$10244.53
Coax/Repeater	\$ 1164.64	\$ 1164.64
Education	\$ 1909.29	\$ 1909.29
<b>Total</b>	<b>\$13498.76</b>	<b>\$13318.46</b>

\*Reference made to "BARS" refers to Bluegrass Amateur Radio Society, Inc., wherever it occurs.

**Education: Bill Fuqua, WA4LAV.** No Thursday technical sessions or Saturday workshops will be held for at least the next month due to surgery recovery.

**Emergency Preparedness:** The committee's chairman position is currently vacant, and volunteers for the committee will be considered. This committee is the club's liaison with the Red Cross.

**Hamfest: David Richardson, W9KHZ.** Nothing to report.

**Newsletter: Bill DeVore, N4DIT,** and **Bart Breeding, WB4FEE.** The club's web page and information access will be modernized and updated.

**Program: James Schlessler, WA9MED.**

- 1) The October program is tentatively "Solar Eclipse Propagation".
- 2) The November program is Nominations for Officer Elections.
- 3) December program is the members gear auction and elections.
- 4) Suggestions for future program topics are welcome, and members activities are always good subjects.

**Public Relations and Membership: Bart Breeding, KB4FEE.** Nothing to report.

**Repeater: Andrew Cook, KF4OWP.** Nothing to report.

**Shack: David Richardson, W9KHZ.**

- 1) A list of action items is being compiled for the upcoming antenna inspection and maintenance activities.
- 2) The new antenna for the MARS operations has been installed..

**HF Liaison: David Richardson, W9KHZ.** Nothing to report.

**VHF Liaison: Tim Kunkel, KF4MPM.** Nothing to report.

**Volunteer Examinations: (Fernie Williams, KE4MEI).** (no report)

**Historian: Bill DeVore, N4DIT.** Nothing to report.

**KYQRP(ad hoc) – (Roger Colvin, KJ4YSY).** (no report).

**Library: John Barnes, KS4GL.** Nothing to report.

**MARS: Harvey Frye, AA4HF, and Barry Jackson, WB4N.**

- 1) The new MARS antenna tunes-up and is in operation.
- 2) Mars activity was limited due to Hurricane Florence emergency recovery activities.

**Trustee: Andrew Cook, KF4OWP.** License renewals for the KY4ATV station and KF4NB packet station are pending.

**Bylaws: Andrew Cook, KF4OWP.** Secretary **Bruce Campbell, KM4EHU,** is recording the proceedings of the Bylaws committee, which is meeting at 6:00pm before the general club meeting and the Directors' meeting. The current Bylaws are being reviewed article-by article, and are revised likewise. The revisions as they are made are being submitted to the Directors for review for ultimate approval and to be presented to the club for general acceptance by vote. The Bylaws committee meeting is open to any interested BARS member.

#### Old Business

- 1) The new electronic locks have been installed on the shack and shop doors.

2) A new key lock will be installed on the outside door for access to the club area during times when the Red Cross Building is closed.

3) Additional radio electronics equipment is being moved from the Brooks' estates and will be inventoried and cataloged to determine its disposition.

**New Business:** None.

#### Upcoming BARS and Other Schedules:

October 1st, 6:00pm. Bylaws Committee Meeting - CANCELED.

October 1st, 7:00pm. KY-QRP Meeting.

October 1st, 7:30pm. BARS General Meeting. Program: Solar Eclipse Propagation.

October 13th, 8:00am – Cave Run Hamfest, Morehead, Ky.

October 15th, 6:00pm - Bylaws Committee Meeting.

October 15th, 7:30pm - Directors' Meeting.  
November 5th, 6:00pm - Bylaws Committee Meeting – CANCELED.

November 5th, 7:00pm – KYQRP

November 5th, 7:30pm, BARS General Meeting. Program: Nominations for 2019 officer elections.

November 19th, 6:00pm - Bylaws Committee Meeting.

November 19th, 7:30pm - Directors' Meeting.

With no other business at 8:31pm, **James Schlessler, WA9MED,** moved, and **Bill De Vore, N4DIT,** seconded, that the meeting be adjourned, which was approved unanimously. ♦

## Minutes of the General Meeting of the Bluegrass Amateur Radio Society, Inc., October 1, 2018\*

Recorded and submitted by  
**Bruce A. Campbell, KM4EHU**  
Secretary

The secretary was out-of-town – No minutes were recorded. ♦

Looking Back. . . From "QUA/HAMnews," November 1994, page 9

## Secretary's Report

Respectfully Submitted, Bill DeVore/N4DIT,  
Secretary

### Minutes of the Regular Meeting of the Bluegrass Amateur Radio Society, Inc., October 3, 1994

The meeting was called to order by Greg Cross/WA8FJK at 7:32 p.m. Other officers present were Jim Smith/WB4MQA, and Harry Sparks/AB4OQ. Committee chairs present, in addition to those officers who serve as chairs, were Harry Bradshaw/W4TPB, Johnie Watson/KC4JNR, Bill Fuqua/KO4WW, Bill DeVore/N4DIT, Warren Moore/NM3U, and John Barnes/KE4HBM.

There were four visitors in attendance.

Applications for membership were read, and approved, for Allen Owens/KE4DTE, David Richardson, and Gary Johnson/KI4LA. Allen and David reside in Lexington, Gary lives in Edgewood, Kentucky.

#### Committee Reports

**Contest Committee** – Warren Moore/NM3U reminded everyone that contest season was about to begin with many of the annual BIG contests being held in October. He also announced the next Fox Hunt is scheduled for Sunday, October 23, at 1:00 p.m. Everyone will meet on the 146.76 repeater and then shift to 147.525 simplex. Warren encouraged everyone to participate.

**Education Committee** – Bill Fuqua/KO4WW reported that the Fall class, Introduction to Amateur Radio, has met three times and everyone who started the class is attending and doing well.

**Emergency Preparedness** – John Barnes/KE4HBM announced that the next meeting of the Disaster Action Learn will be October 20, at 6:30 p.m. in the Red Cross Building. He also said there will be RACES Training session on October 17 and 18, and an SET October 19. Paul Mitchell/N4DUE said there will be a statewide SET October 15 which will involve DES and ARES personnel.

**Hamfest Committee** – Bill DeVore/N4DIT had nothing to report.

**Newsletter Committee** – Bill DeVore/N4DIT said there was nothing to report. Invited everyone to either write articles for future issues, or to give him suggestions for the content of articles. There were no comments, not even groans. The atmosphere was very similar to that one perceives as a Quaker meeting.

**Program Committee** – Harry Bradshaw/W4TPB said no program was planned and asked for suggestions. The Quaker meeting continued.

**Public Relations Committee** – Harry Bradshaw/W4TPB said he had not received any requests for help. Bill Woodward/KC4CHF said he and seven volunteers had helped provide communications for the Band Contest at Bryan Station High School on Saturday, September 24. Those who spent the day were Jetty Woodward/KC4JNP, Johnie Watson/KC4JNR, Bill DeVore/N4DIT, Nick Molnar/N4VJM, Darryl Bennett/KD4CSW, and Jeff Sharp/WD4MIR.

**Repeater Committee** – Greg Cross/WA8FJK said that the 146.76 repeater was continuing to provide very clear and responsive communications. The 147.165 repeater still has a problem and the Club would appreciate help from anyone technically qualified.

**Shack Committee** – Johnie Watson/KC4JNR announced the gift by Jeanette Stevenson, "J,"/N4SKY of a SUN-XT computer with monitor and printer. He said the hard drive would be set up for contesting and would be used both in the shack and at Field Day activities.

**Volunteer Examinations** – Bill Fuqua/KO4WW said the next exam session would be Saturday, November 12, in Conference Room B of the Red Cross Building. Walk-ins will be accepted; the code test will be fill the blank and we will not be giving send tests. He said that persons with disabilities should contact him one week or longer before the session so arrangements can be made.

#### New Business

Michelle Marra/KD4HPW, Club Librarian, said there were extra copies of "QST," "CQ" and Ham Radio Magazine. Persons interested in locating missing copies from their collections should contact Michelle at 223-2562.

The business meeting was adjourned and after a short break Paul Mitchell/N4DUE, Assistant EC for Kentucky presented a very interesting program on the proper way to read and interpret maps during and in support of emergency activities. \_\_\_\_\_

# QUA/HAMnews

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 noncommercial 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.

R. William (Bill) DeVore/N4DIT, 112 Brigadoon Pkwy,  
Lexington, Kentucky 40517-1305 (859) 273-8345 billdit@twc.com

## Standing Committee Chairs:

Contest ..... Pete Kragh/K2UPD (859) 223-9389 (k2upd@aol.com)  
Education ..... Bill Fuqua/WA4LAV (859) 272-9523 (wifuqu00@uky.edu)  
Emergency Preparedness (Liaison Bluegrass ARS with LFUCG DEM)  
..... David Richardson/W9KHZ (859) 983-1380 (daveinlex3@gmail.com)  
Hamfest ..... David Richardson/W9KHZ (859) 983-1380 (daveinlex3@gmail.com)  
Newsletter ..... Bill DeVore/N4DIT (859) 273-8345 (billdit@twc.com)  
Program ..... James Schlesser/WA9MED (757) 478-2186 (wa9med@jshlesser.com)  
Public Relations and Membership ..... Bart Breeding/KB4FEE (859) 644-2216 (aratatat291@twc.com)  
Repeater ..... Andrew Cook/KF4OWP (859) 396-9930 (kf4owp@gmail.com)  
Shack ..... David Richardson/W9KHZ (859) 983-1380 (daveinlex3@gmail.com)  
Volunteer Examinations ..... Fernie Williams/KE4MAI (859) 652-3393 (ke4mai@arrl.net)

## Trustees, Ex Officio Committee Chairs, and Contacts for Special Activities:

Historian ..... Bill DeVore/N4DIT (859) 273-8345 (billdit@twc.com)  
KY-QRP Group ..... Roger Colvin/KJ4YSY (859) 494-6268 (KJ4YSY@GMAIL.COM)  
Library ..... John Barnes/KS4GL (859) 253-1178 (jrbarnes@iglou.com)  
Shack/Repeater Trustee ..... Andrew Cook/KF4OWP (kf4owp@gmail.com)  
HF Liaison to Shack Committee ..... David Richardson/W9KHZ  
VHF Liaison to Shack Committee ..... Tim Kunkle/KF4MPM

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:  
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)

## President:

Andrew Cook/KF4OWP  
320 Given Avenue  
Lexington, Kentucky 40502  
859/396-9930  
kf4owp@gmail.com

## Second Vice-President:

James Schlesser/WA9MED  
1492 Elizabeth Street  
Lexington, Kentucky 40503  
757/478-2186  
wa9med@jshlesser.com

## Treasurer:

John Barnes/KS4GL  
216 Hillsboro Avenue  
Lexington, Kentucky 40511-2105  
859/253-1178  
jrbarnes@iglou.com

## First Vice-President:

Bill Fuqua/WA4LAV  
3395 Greentree Drive  
Lexington, Kentucky 40517  
859/272-9523  
wifuqu00@uky.edu

## Secretary:

Bruce Campbell/KM4EHU  
169 Millwood Drive  
Winchester, Kentucky 40391  
859/744-7608  
bruce\_campbell@mymail.eku.edu

## Directors-at-Large:

Tim Kunkle/KF4MPM  
426 Blueberry Lane  
Lexington, Kentucky 40503  
859/279-6307, and  
David Richardson/W9KHZ  
1809 Wayland Drive  
Lexington, Kentucky 40505  
859/983-1380  
daveinlex3@gmail.com

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



## Calendar of Ham Radio Activities for November 2018



- Thu 1 **Meeting of Bluegrass ARS Technical Group**, 6:30 PM, Education Ctr, basement, Red Cross Building, 1450 Newtown Pike, Lexington; **Jessamine Cty ARES Net**, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control.
- Sat 3 **Shack open 9:00-Noon; Radio Theory and Construction Workshop**, (Cancelled)
- Sun 4 **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 5 **KY-QRP meeting**, 7:00 PM, Meeting Room "B," Red Cross Bldg, 1450 Newtown Pike, Lexington.
- Mon 5 **Bluegrass ARS Club meeting**, 7:30 PM, Meeting Room "B," Red Cross Bldg, 1450 Newtown Pike; **District 11 ARES Net** 9:00 PM 146.925 (PL-79.7) linked to 147.180 (PL-74.4).
- Tue 6 **Amateur Swap Net**, 145.370 (T-192.8) 8:00 PM; **"Casual Communicators Net,"** 9:00 PM Eastern, 443.325+ MHz.
- Wed 7 **Six Shooters Net**, 8:00 PM on 52.525 MHz FM (vertically polarized); **Fayette County ARES Net, 9:00 PM, 146.760 repeater.**
- Thu 8 **Meeting of Bluegrass ARS Technical Group**, 6:30 PM, Education Ctr, basement, Red Cross Building, 1450 Newtown Pike, Lexington; **Jessamine Cty ARES Net**, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control.
- Sat 10 **Shack open 9:00-Noon; Radio Theory and Construction Workshop**, (Cancelled)
- Sun 11 **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 12 **Jessamine Amateur Wireless Society meeting**, 7:00 PM, St. Joseph/R.J. Corman Ambulatory Care Center, 1250 Keene Road, Nicholasville; **District 11 ARES Net** 9:00 PM 146.925 (PL-79.7) linked to 147.180 (PL-74.4).
- Tue 13 **Amateur Swap Net** 145.370 (T-192.8) 8:00 PM; **"Casual Communicators Net,"** 9:00 PM Eastern, 443.325+ MHz;
- Wed 14 **Six Shooters Net**, 8:00 PM on 52.525 MHz FM (vertically polarized); **Fayette County ARES Net, 9:00 PM, 146.760 repeater.**
- Thu 15 **Meeting of Bluegrass ARS Technical Group**, 6:30 PM, Education Ctr, basement, Red Cross Building, 1450 Newtown Pike, Lexington; **Jessamine Cty ARES Net**, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control.
- Sat 17 **Shack open 9:00-Noon; Radio Theory & Construction Workshop**, 1:00-3:00 PM, basement, Red Cross Bldg, 1450 Newtown Pike; License exam session 10:00 AM, sponsor W5YI VEC, Clark County EOC, liaison **Darrell Epperson/AC4YD**, eppersond@aol.com, 859-771-1834.
- Sun 18 **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)
- Mon 19 **Bluegrass ARS Board of Directors' Meeting**, 7:30 PM, Education Center in basement of Red Cross Building; **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 20 **Amateur Swap Net** 145.370 (T-192.8) 8:00 PM; **"Casual Communicators Net,"** 9:00 PM Eastern, 443.325+ MHz.
- Wed 21 **Six Shooters Net**, 8:00 PM on 52.525 MHz FM (vertically polarized); **Fayette County ARES Net, 9:00 PM, 146.760 repeater.**
- Thu 22 **Meeting of Bluegrass ARS Technical Group**, 6:30 PM, Education Ctr, basement, Red Cross Building, 1450 Newtown Pike, Lexington; **Jessamine Cty ARES Net**, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control.
- Sat 24 **Shack open 9:00-Noon; Radio Theory and Construction Workshop**, 1:00-3:00 PM, basement, Red Cross Bldg, 1450 Newtown Pike;
- Sun 25 **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)
- Mon 26 **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 27 **Amateur Swap Net** 145.370 (T-192.8) 8:00 PM; **"Casual Communicators Net,"** 9:00 PM Eastern, 443.325+ MHz;
- Wed 28 **Six Shooters Net**, 8:00 PM on 52.525 MHz FM (vertically polarized); **Fayette County ARES Net, 9:00 PM, 146.760 repeater.**
- Thu 29 **Meeting of Bluegrass ARS Technical Group**, 6:30 PM, Education Ctr, basement, Red Cross Building, 1450 Newtown Pike, Lexington; **Jessamine Cty ARES Net**, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control.