

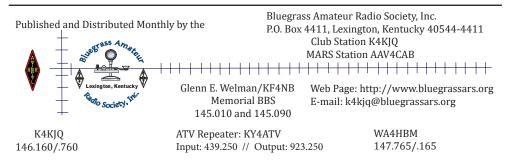






# Richmond Hamfest 9-14-19

| Quicky Notes1                                   |
|---|
|   |
| Meeting Notice1                                 |
| Hamming it up on the ISS2                       |
| Communicating in Space3                         |
| The Space Network Cell Towers for Astronauts5   |
| Board of Director's Meeting 07-15-197           |
| Program Schedule for 20198                      |
| Meeting Schedule for Area Clubs, Exam Schedule9 |
| Scheduled of Volunteer Examinations for 201910  |
| General Meeting Minutes for August 5, 201910    |
| Treasurer's Report for as of 7-31-1912          |
| Richmond Hamfest Flyer13                        |
| Contest Corral for September 201914             |
| Calendar of Ham Radio Activates for             |
| September 201915                                |
| -   |



"Ham News" was first published by Bobby Foster, WA4ZSQ, in August, 1972; the parent newsletter, "QUA," was first published in March, 1947 Accessing the Club's web page: <a href="http://www.BluegrassARS.org">http://www.BluegrassARS.org</a>.

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:<br/>bars@lsv.uky.edu>.

## QUICKY NOTES -

The August program will be a discussion on our upcoming "Hamfest" and will be presented by David Richardson.



Reports of the RECORD OF THE BY LAWS COMMITTEE MEETINGS will not be published in the newsletter due to length. Contact Secretary Bruce Campbell to obtain a copy of the reports.

CENTRAL KENTUCKY AMATEUR RADIO SOCIETY HAMFEST, RICHMOND, KY, MADISON COUNTY FAIRGROUNDS, SATURDAY SEPTEMBER 14, 2019

QUA/HAMnews

September 2019)

#### **Meeting Notice**

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

The Bluegrass Amateur Radio Society, Inc., will have it's Annual Family Picnic on Monday, September 9 2019, at 6:00 PM, at Shelter #4 at Shillito Park.

No program is scheduled,

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 open most Saturday mornings for anyone to operate the Club's stations, or to bring pieces of equipment out to be tuned or checked, or to learn about Amateur Radio, or to just sit around and talk

just drop in, no appointment necessary. 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. DUE TO CONSTRUCTION ON THE PLAYGROUND NEAR SHELTER #2, OUR ANNUAL PICNIC WILL BE HELD AT SHELTER # 4 AT SHILITO PARK IN SEPTEMBER

## Those who dare to fail miserably can achieve greatly." - John F. Kennedy

**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

## Hamming it Up on the ISS

http://nasaexplores.nasa.gov/show2\_articlea.php?id=01-018

Amateur radio, also called ham radio, has become a fun way for average folks to communicate with International Space Station astronauts. Anyone with a scanner can listen to the communications that take place between Earth and space, and if you have a transmitter, you can take part in the conversations.

Amateur Radio On The International Space Station (ARISS) is a program that offers an opportunity for students to experience the excitement of Amateur Radio by talking directly with crew members of the ISS.

Image to right: Logo image for the Amateur Radio On The International Space Station program. Credit: ARISS

"To talk with the astronauts, you'll need to know several important bits of information," says Paul Dumbacher, a propulsion test engineer at Marshall Space Flight Center in Alabama, who also enjoys ham radio.

"The important things to know are when the Space Station will be over your location, what frequency the astronauts transmit on, and what the crew's schedule is," Dumbacher says. "It doesn't matter if the ISS is passing overhead during daylight hours because you don't need to see the craft. The important thing is to take advantage of the small window of opportunity you have to K4KIQ communicate with them. The ISS is overhead for only about 10 minutes at a time in any given area, so you have to be on the ball."

While individuals can monitor Space Station transmissions from home, school groups can make it a class project and work closely with ham radio operators and NASA staff members to schedule a conversation with the astronauts. The ARISS project was started with that goal in mind: classes of students interacting directly with astronauts through ham radio linkups.

Making sure a school is ready to communicate with the ISS can be a challenge. There is a 10-minute window for communication and it's important to make sure the students and equipment are prepared when the Station passes overhead.

Image to right: Students at DuBose Middle School, Summerville, South Carolina had a successful contact with Mike Foale on board the ISS via amateur radio. Credit: ARISS

It's a living example of why mathematics and science are important. "It shows practical use of formulas," Dumbacher says. "Students learn about complex ideas like Doppler Shift and trajectory paths. It shows that even addition and subtraction get you to important points. Science matters. Without science, we wouldn't have the ISS, we wouldn't understand weather and we wouldn't understand basic functions of everyday life. And there's no better way to learn it than by doing it."

If you get the opportunity to make contact with Shuttle or Space Station astronauts, Dumbacher has one bit of advice. "Be sure to get a QSL card. That's a card NASA will send you, proving that you talked to an astronaut. There's information about getting it on the ARISS Web site. You'll want to be able to put that up on your bulletin board and tell everyone."

Visit http://spaceflight.nasa.gov/station/reference/radio/ to learn more about ham radio on the International Space Station.

Visit http://www.rac.ca/ariss/ to learn more about the Amateur Radio On The International Space Station Program.

To read the full text of the article, visit: http://nasaexplores.nasa.gov/show2\_articlea. php?id=01-018



## Communicating in Space

#### https://www.nasa.gov/topics/moonmars/features/hatsman.html

When astronauts venture outside of a spaceship or the International Space Station, they must wear protective space suits to keep them safe from the harsh environment of space. While inside these pressurized suits, it's essential that they remain in constant communication with the rest of the crew in space as well as Mission Control Center on Earth.

While wearing the current space suits, astronauts wear a Communications Carrier Assembly (CCA), or "Snoopy Cap" — a fabric hat fitted with microphones in the ear area for listening and boom microphones in front of the mouth for speaking. These caps are worn under the helmet and visor that surround an astronaut's head.

A new Integrated Audio system, which enables astronauts to communicate in space, is being tested at NASA's Glenn Research Center in Cleveland in a test rig. Image Credit: NASANASA is in the process of completely redesigning their space suits, with the goal of creating a brand new space suit to be used starting in 2020. Redesigned and reinvented communications equipment will be an important facet of the new suit.

#### **Integrated Audio**

NASA's Glenn Research Center in Cleveland is working on different parts of the new space suit, including communications equipment. The Exploration Technology Development Program (ETDP) is involved with testing various proposed solutions to the communications requirements within the suit.

The Communications Carrier Assembly (CCA), while effective, has some logistical drawbacks. Multiple cap sizes must be available due to the difference in astronauts' head sizes. The caps cannot be adjusted once the visor of the helmet is in place and the astronaut is in space, which means that if the microphones shift, communication quality can decrease. The boom microphones can also interfere with feeding and drinking mechanisms during long-duration spacewalks. An additional problem is that astronaut sweat can negatively interfere with the performance of the electrical and mechanical parts in the CCA. For several years, Glenn has performed research and development on a variety of communications technologies. About six years ago, teams at Glenn began working on integrated audio solutions to support extravehicular activities, like space walks. In 2008, Glenn signed a Small Business Innovation Research (SBIR) agreement with WeVoice Inc. of Bridgewater, N.J. Together, they began developing and testing an integrated audio system that is built directly into a space helmet.

"The integrated audio system is where the microphones and earphones are removed from the Communications Carrier Assembly and integrated into the structure of the space suit itself," says Obed "Scott" Sands, an electronics engineer at Glenn, lead for Configuration II Audio under Constellation and lead for integrated audio development for the Exploration Technology Development Program (ETDP).

The test rig for testing the Integrated Audio system includes a HATSMAN—Head and Torso Simulator. The HATSMAN has an electronic 'mouth' and 'ears.' Image Credit: NASAThe new integrated audio system solves many of the issues the CCA presents. As the integrated audio system is part of the actual space suit, there are no additional parts to worry about maintaining. The microphones and earphones are built into the suit, which means there are no moving parts to disrupt an astronaut's movements or become dislodged during activity. And the integrated audio system is a universal size — no separate caps are needed for individual crew members.

Rather than one boom microphone, the new integrated audio system uses an array of microphones — currently four, but the number could increase — that are located in front of where an astronaut's mouth is while inside the helmet. The integrated audio system features cutting-edge digital signal processing which helps the microphones overcome loss of fidelity on the outbound (speaking) part of the system.

Channel Noise Reduction. This new filtering approach features technology adapted from video teleconferencing systems. Advanced filters are used for each of the array's channels, and additional noise reduction is used to isolate the sound of (continued on page 4 (continued from page 3, Communicating in Space

#### speech.

Several speakers are installed in the helmet, which are designed to focus the sound towards the astronaut's ears. These speakers also isolate other sounds so that crew members can effectively hear. This solves the issue of occasional unclear inbound communications (listening). The microphone array and associated signal processing are needed in the integrated audio system to overcome decreased sound quality. Sound quality can be negatively impacted because the microphones of the integrated audio system are positioned on the inside of the helmet — farther from an astronaut's mouth. This makes the microphones more susceptible to interference from noise created inside of the suit as well as noise from vibrations of the spacesuit structure.

The current technology development approach to solving these problems involves processing signals from each element in the array, known as Multi-

The test rig is fitted with acoustic panels, to isolate noise. It is also pressurized to the same level as NASA space suits. Image Credit: NASA"This new system will provide the crew member with more freedom and increased reliability," says Terry O'Malley, an aerospace engineer and the EVA lead at Glenn. "It also provides the system designers with increased flexibility in designing the system."

#### **Testing with a Torso**

In order to assess the effectiveness of the new system, the conditions inside a space suit must be replicated. Then the integrated audio is tested by using a specialized piece of equipment that creates human speech. This equipment, shaped like a human torso, is called HATSMAN — Head and Torso Simulator. It is manufactured by Brüel & Kjær, a company based in Denmark.

"It listens like a person and talks like a person," Sands says. "It's got microphones in its ears and a speaker in its mouth, and the radiation patterns conform to international standards for mannequins that emulate human speech and hearing."

The testing involves taking advanced measurements of the noise produced by HATSMAN

# DUE TO CONSTRUCTION ON THE PLAYGROUND NEAR SHELTER #2, OUR ANNUAL PICNIC WILL BE HELD AT SHELTER # 4 AT SHILITO PARK IN SEPTEMBER

and received by the integrated audio system and vice versa. This anthropometric measuring helps Glenn researchers refine their design, using data created by machines that accurately represent the needs of the humans who will eventually use the completed system.

The HATSMAN at Glenn is installed in a testing tank that is carefully designed to mimic the environment inside a space suit. It is lined with acoustic absorbing foam that isolates extra noise that the tank itself might create. Then a noise source simulates the sound created by space suits, which is generated from a recording taken inside an actual space suit. Special microphones that do not create their own static pressure are installed, which take measurements without affecting the readings.

"The biggest reason we're in the tank is that we can create a static pressure environment that simulates the inside of the actual suit," says Dave Pleva (DB Consulting Group, Inc.), an IT Project Analyst at Glenn who supports audio development work for ETDP.

The HATSMAN creates and receives vocal sounds. This determines the effectiveness of the Integrated Audio system. Image Credit: NASAThe tank recreates the pressure inside of the suit, not the pressure of the entirety of space — because the integrated audio system is made for use inside a helmet. The positive pressure inside a space suit is about 4.3 PSI (equivalent to about 35,000 feet altitude) so the team tests with this as its base.

(continued on page 5)

(continued from page 4, Communicating in Space

They also explore other variations in barometric pressure. The test rig also includes an acrylic dome to simulate the helmet. The team explores how speech and sound bounce off of the surface of the helmet.

A specialized device, called Digital Speech Level Analyzer (DSLA), provides vocal tracks for use in testing. Various utterances comprise the test speech to make it phonetically balanced — including all of the patterns and pairs that, statistically speaking, would show up in the English language. Both male and female voices are used.

"We generate a signal, it goes through an amplifier that powers the speaker in the HATSMAN, and then the array picks up the speech. The array then processes the speech and sends out the process signal to the DSLA. The DSLA then does a comparison of what it sent and what it receives," Pleva says.

The primary performance concern is speech intelligibility. Although quality of sound is also important, the main interest is that as many words as possible be successfully transmitted both ways. This can be effectively measured using the equipment in place.

"The next step would be to build an even higher fidelity version of this integrated audio system. Then we'll do another round of these tests. Eventually, we'll have a human being tested inside a pressure chamber," says Dave Irimies, a computer engineer and ETDP lead at Glenn.

#### Advancing Technology

The ongoing research, development and testing of this integrated audio system is part of the Space Audio Development and Evaluation Laboratory at Glenn.

"Our direction is replacing the current suit on the space station and shuttle. The current certification runs out in ten years, in 2020, so... this is an opportunity to use even more advanced technology," Irimies says. "This work is pressing forward." The team hopes that the integrated audio system can commence testing on the space station in 2016. The technology may also be useful for communicating inside the station as well as during space walks. There may also be the potential that the technology can help on Earth. WeVoice Inc. is currently working with the University of Pittsburg on one potential spin-off: developing a teleconferencing system using microphone arrays for operating rooms in hospitals.

The team looks forward to working together to continue testing and evolving their integrated audio system, with the goal of significantly influencing how the next generation space suit will work.

"We all challenge each other in different ways, all the time," Sands says. "It's a lot of fun, getting new concepts infused into space systems. That's what NASA is all about."

Tori Woods, SGT Inc. NASA's Glenn Research Center

# The Space Network: Cell Towers for Astronauts

https://www.nasa.gov/audience/foreducators/stem-on-station/downlinks-scan.html

On Nov. 2, 2000, the first crew to live on the International Space Station arrived. Humans have continued to live and work there ever since. Reliable communications between the crew on the space station and the support team on Earth helps make it possible. Space communications is crucial for most astronaut activities, from performing spacewalks to conducting experiments to calling friends and family. NASA stays in contact with astronauts orbiting more than 250 miles above Earth with a network of communications satellites and groundbased antennas. Together, they make up NASA's Space Network.

A constellation of Tracking and Data Relay Satellites (TDRS) form the space-based portion of the network. They work like cell phone towers in space. TDRS are located in geosynchronous orbit more than 22,000 miles above Earth, which lets the space station contact one of the satellites from anywhere in its orbit.

(continued on page 6)

(continued from page 5, The Space Network)

As the communications satellites travel around Earth, they stay above the same relative point on the ground as the planet rotates.

TDRS handles voice, video and science data in real time. If an astronaut on the space station wants to transmit data to Mission Control at NASA's Johnson Space Center in Houston, Texas, the station's onboard computer first converts the data into a radio frequency signal. An antenna on the station transmits the signal to a TDRS. The TDRS then routes the signal to NASA's White Sands Complex in White Sands, New Mexico. Landlines send the signal to Houston, and computer systems on the ground turn the radio signal back into readable data. If Mission Control wants to send data back, the process repeats in the other direction, transmitting from White Sands to TDRS to the space station. All of this happens in milliseconds so that there is no noticeable delay in communication.



communications less than 15 minutes every hour and a half. Imagine if our cell phones worked that way. It would be difficult to stay in contact with family and friends or respond to important messages. The Space Network provides near continuous communications coverage every single day.

NASA's Goddard Space Flight Center in Greenbelt, Maryland, manages and operates the Space Network. NASA's Space Communications and Navigation (SCaN) program office, part of the Human Exploration and Operations Mission Directorate at the agency's headquarters in Washington, provides strategic and programmatic oversight for the network.



National Aeronautics and Space Administration-Page Last Updated: Sept. 13, 2018Page Editor: Flint WildNASA Official: Brian Dunbar

NASA uses this same communications system for in-flight education downlinks. TDRS and the Space Network allow astronauts in space to answer questions from students across the United States through video and voice calls.

The space station plays an important role in furthering our knowledge about a variety of subjects. The unique environment of low-Earth orbit allows astronauts to conduct experiments, which provide valuable insight in the fields of physics, biology, astronomy, meteorology and more. The Space Network delivers this one-of-a-kind science data back to Earth.

Before the Space Network, NASA astronauts and spacecraft could only communicate with the support team on Earth when they were in view of an antenna on the ground. That allowed only for "We choose to go to the moon in this decade and do the other things, not because they are easy, but because they are hard, because that goal will serve to organize and measure the best of our energies and skills, because that challenge is one that we are willing to accept, one we are unwilling to postpone, and one which we intend to win."

– John F. Kennedy

Bluegrass Amateur Radio Society (BARS) Directors' Meeting Minutes of July 15, 2019 Red Cross Building, Lexington, Ky.

The July, 2019, Directors' Meeting was called to order at 7:33pm by President Andrew Cook, KF40WP.

In attendance were:

1st Vice President – Bill Fuqua, WA4LAV. 2nd Vice President – David Richardson, W9KHZ; Treasurer – John Barnes, KS4GL; Secretary – Bruce Campbell, KM4EHU;

Directors-at- Large – Tim Kunkel, KM4MPM, Mark Elliott, KN4HVX;

plus MARS Representatives Barry Jackson, WB4N, and Harvey Frye, AA4HF, and also Bart Breeding, KB4FEE, and Bill Weaver, WE5P.

Treasurer's Report – John Barnes, KS4GL.

1. One(1) new Family Membership Applications was received for Don Stoutenberg and Sherry Brock who are interested in attaining their Amateur Radio Licenses. David Richardson, W9KHZ, moved, and Tim Kunkel, KM4MPM, seconded for acceptance of the applications to be presented to the membership at the August Open General Meeting. The motion was accepted without objections. 2. Summary Treasurer's Report as of June 30, 2019:

| Checking account: |            |   |
|-------------------|------------|---|
| General fund:     | \$7.865.28 |   |
| Coax/repeater:    | 804.98     | K |
| Education:        | 1,815.25   |   |
| \$10,485.51       |            |   |
| PayPal account:   |            |   |
| -                 | 3,360.36   |   |

Savings account:

201.10 Total balance of accounts:

\$14,046.97

Tim Kunkel, KM4MPM, moved, and David Richardson, W9KHZ, seconded that the treasurer's report be accepted which was approved without objection.

Secretary's Report – Bruce A. Campbell, KM4EHU Nothing to report.

Committee Reports.

Contest: Pete Kragh, K2UPD. (no report) Education: Bill Fuqua, WA4LAV. Bart Breeding, KB4FEE, and David Richardson, W9KHZ, will be conducting a Technician Class License study session beginning August 14th at the Red Cross Building.

Emergency Preparedness: Sandy Gragg, KM4PJU. (no report)

Hamfest: David Richardson, W9KHZ. Three(3) vendors are planning to attend the Hamfest on August 10th.

Newsletter: Bart Breeding, WB4FEE. Nothing to report.

Program: David Richardson, W9KHZ. The August Program will be "Hamfest".

Public Relations and Membership: Bart Breeding, KB4FEE.

Nothing to report.

Repeater: Andrew Cook, KF4OWP.

1. The antenna and coax the WKYT-TV station will require inspection and testing in order to analyze and isolate the degraded performance 146.76-mhz repeater operations.

2. An antenna replacement is being studied for the 147.125 repeater at the University of Kentucky campus.

Shack: David Richardson, W9KHZ.

Antenna maintenance and replacements activities are continuing.

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

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

Volunteer Examinations: Fernie Williams, KE4MEI. Nothing to report.

Historian: Bill DeVore, N4DIT. Nothing to report. Library: John Barnes, KS4GL. Nothing to report. MARS: Harvey Frye, AA4HF, and Barry Jackson, WB4N. The MARS station is operating successfully on its network.

Trustee: Andrew Cook, KF4OWP. Nothing to report.

Bylaws: Andrew Cook, KF4OWP. Secretary Bruce Campbell, KM4EHU,

1. Reported that the revisions to the Bylaws are being proof-read and will soon be ready to submit to the Directors' for preliminary approval before they are presented to a general membership vote for adoption. The Bylaws committee meeting is open to any interested BARS member.

(continued on page 8)

(continued from page 7, Director's Meeting 07-15-19)

2. A set of BARS Standard Operating Procedures is being formulated at the Bylaws Committee meetings, and input is welcome from members. Old Business:

The disposition and disposal of the donated equipment was discussed.

New Business:

A motion for up to \$350 the purchase of new ARRL Technician Class License Study Guides which will be sold at cost to students participating in the license exam study sessions begin was proposed by John Barnes, KS4GL, and seconded by Tim Kunkel, KM4MPM, and approved unanimously.

Upcoming BARS Schedule:

August 5th, 6:00pm - Bylaws Committee Meeting.

August 5th, 7:30pm - BARS General Meeting. Program: Hamfest.

August 10th, 7:30pm – Hamfest.

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

August 19th, 7:30pm - Directors' Meeting. September 9th, 6:00pm – Picnic at Shillito Park. No formal Meeting.

September 16th, 6:00pm - Bylaws Committee Meeting. September 16th, 7:30pm - Directors' Meeting. October 7th, 6:00pm - Bylaws Committee Meeting. October 7th, 7:30pm - BARS General Meeting. Program: Bylaws.

October 21st, 6:00pm - Bylaws Committee Meeting. October 21st, 7:30pm - Directors' Meeting. November 4th, 6:00pm - Bylaws Committee Meeting. November 4th, 7:30pm - BARS General Meeting. Program: Nominations for 2020 Officers.

With no other business at 8:32pm, President Andrew Cook, KF4OWP, asked for a motion to adjourn the meeting which was moved by Tim Kunkel, KM4MPM, and accepted by general consent without objection.

Recorded and submitted by: Bruce Campbell, KM4EHU Secretary

#### **Program Schedule for 2019**

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

The following programs are scheduled for 2019. Your input and suggestions for programs for 2019 are needed. Call David Richardson,W9KHZ at 869-983-1380 or e-mail at daveinlex3@gmail.com/.

|  | Month     | Торіс   | Presenter(s) Comments                     |  |  |  |  |
|--|-----------|---|---|--|--|--|--|
| $\checkmark$   | January   | "Winter Field Day" January 26-27, 2019  | David Richardson/W9KHZ                    |  |  |  |  |
| <ul> <li>Image: A second s</li></ul> | February  | CERT Program  | Shelly Bendall LFUCG                      |  |  |  |  |
| 1  | March     | SkyWarn National Weather Service, Lou   | isville, KY Joe Sullivan                  |  |  |  |  |
| _/_  | April     | Portable Go-Kit   | David Richardson/W9KHZ                    |  |  |  |  |
| $\checkmark$   | May       | Antenna Theory and Design   | Bill Fuqua/WA4LAV                         |  |  |  |  |
| 1  | June      | "ARRL Field Day" June 22-23, 2019   | David Richardson/W9KHZ                    |  |  |  |  |
| $\checkmark$   | July      | Lightening Protection   | Jim Bacher                                |  |  |  |  |
| <b>\</b>   | August    | "Hamfest" August 10, 2019   | David Richardson/W9KHZ                    |  |  |  |  |
|  | September | Annual Family Picnic  | Bill DeVore Shelter#4, Shillito Park, LEX |  |  |  |  |
|  | October   | Discussion of By-Laws and SOP changes   |   |  |  |  |  |
|  | November  | lovember Report of Nominating Committee Additional discussion on By-Laws and SO |   |  |  |  |  |
|  | December  | "Annual Auction"/Election   | Andrew Cook                               |  |  |  |  |

### 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 8:00 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 - Temporarily canceled.

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 26 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.

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, Bart Breeding/KB4FEE, in care of Bluegrass ARS, Inc., PO Box 4411, Lexington, KY 40544-4411, or e-mail to aratat291@twc. com.

"Associate yourself with men of good quality if you esteem your own reputation; for 'tis better to be alone than in bad company." -George Washington

|   |  | ]                    |
|---|--|----------------------|
| Schedule for Volunteer Examination  | tions in 2019<br>Harry Spark/KN4S,*                              | HAMFES               |
|   | Bluegrass Volunteer Examiners                                    |                      |
|   | kn4s@kn4s.com  | 09/07/2              |
| The exam schedule for 2019 follows nearly the s is for Lexington/Fayette County and the sessions i      |  | ville Han            |
| Richmond hamfest. The Bluegrass Amateur Radio   | Society-sponsored ARRL exams will continue                       | Location             |
| to be held on the second Saturday of the second m<br>Session will be the date of the Central Kentucky A |  | Type: AF             |
| sessions remain as they were last year, Tuesday e   |  | Sponsor              |
| Test Session Locations  |  | Hamfest              |
|   |  | Website:             |
| Lexington* Winchester**<br>Red Cross Building Clark County EOC Am                                       | Danville Georgetown<br>er Legion Post 46 Georgetown Police Dept  | Hamfest              |
| 1450 Newtown Pike 200 Maryland Ave 45 S   | Spears Lane 550 Bourbon Street                                   |                      |
| Lexington KY 40509 Winchester KY 40391 Dat<br>* August, Bluegrass ARS Hamfest, Eastland Shopp           |  | 09/14/2              |
| ** September, Richmond Hamfest, Madison Count   | ty Fairgrounds, Richmond, Kentucky                               | Hamfest              |
| Contact Information   |  | Location             |
| ARRL VEC: Lexington and BARS ARRL Hamfest   |  | Type: Al             |
| Williams/KE4MAI, ke4mai@arrl.net, 859<br>(www.bluegrassars.org)   | -652-3393  | Sponsor              |
| Danville - Liaison John Wulf/K4FT, johnk4   | 4ft@gmail.com, 563-  | Amateur              |
| 505-0339, Wilderness Road ARC, http://v<br>Georgetown - Liaison Ron Malinowski/W                        |  | Website              |
| wx4gps@arrl.net, 502-542-8252   |  | org/han              |
| WCARS VEC: Lexington - Liaison Marguer<br>ke4maj@arrl.net, 859-489-6274 (www.bl                         |  | 09/28/2              |
| W5YI VEC: Winchester - Liaison Darrell E  |  | Location             |
| AC4YD@arrl.net, 859-771-1834  |  | Type: AF             |
| TEST SESSION FEE: ARRL - \$15; WCARS - \$10; W  | /5YI - \$14  | Sponsor              |
| Date and Time VE  | EC Location  | Commur<br>Website:   |
|   |  | website.             |
| Saturday, September 14, 2019 12:30 pm   | W5YI Richmond (Hamfest)  |                      |
| Tuesday, September 17, 2019 7:00 pm   | WCARS Lexington  | 10/05/2              |
|   | igton, Kentucky  | 10/05/2<br>Vette Cit |
|   |  | Location             |
| Bluegrass Amateur Radio Society   | K4KJQ Ketucky Hamfest  | Type: AR             |
| (BARS)  | on Saturday, August  | Sponsor:             |
| General Meeting Minutes of August 5,  | 10th, at the Jackpot Bingo Hall                                  | Amateur              |
| 2019  | in the Eastland Shopping Center.                                 | Website:             |
| Red Cross Building, Lexington, Ky.  | Preliminary set-up will be at                                    | hamfest.             |
| The August, 2019, BARS General  | 12:00 midnight on Friday and                                     |                      |
| Meeting was called to order at 7:35pm   | final setup will start at 6:00am                                 | 10/26/2<br>fest      |
| by First Vice President Bill Fuqua,   | Saturday morning in prepa-                                       | Location             |
| WA4LAV.   | ration for opening at 8:00am.                                    | Type: AF             |
| Self-introductions were made by   | Clean-up will start at 2:00pm                                    | Sponsor              |
| thirteen(13) licensed members in  | after the Hamfest.   | Amateui              |
| attendance, which did not composed a  | Club and Members' News.  | Website              |
| required quorum of fifteen(15)mem-  | 1. Four(4) members in atten-                                     | TTCD51(C             |
| bers to conduct BARS business. The  | dance admitted to having birth-<br>days in August: Mark Elliott, |                      |
| assembly proceeded in order to pro-   | KN4HVX; Blaine Early, KM4ZFQ;                                    |                      |
| vide current information for those in   | David Richardson, W9KHZ, and                                     |                      |
| attendance.   | John Frost, AK2T.  |                      |
| Program: David Richardson, W9KHZ,   | JUIII I I USU, III\2 I.  |                      |
| provided the plans for the our Central  | (continued on page 11)   |                      |

#### ST/CONVENTION

ī

2019 | Greater Louismfest 2019 n: Shepherdsville, KY RRL Hamfest r: Greater Louisville t Association e: http://Louisvillet.com

2019 | Richmond st

n: Richmond, KY RRL Hamfest or: Central Kentucky ar Radio Society e: http://www.ckars. mfest

2019 | ARCS Hamfest n: Paintsville, KY **RRL** Hamfest r: Amateur Radio nity Services Club e: http://ky4arc.com

2019 | 8th Annual ty Hamfest n: Bowling Green, KY RRL Hamfest r: Kentucky Colonels r Radio Club : http://vettecityt.com

2019 | Hazard Ham-

n: Hazard, KY RRL Hamfest r: Kentucky Mountains ur Radio Club, Inc. e: http://kymarc.org

(continued from page 10, General Meeting 08-05-19)

2. Nominations for the 2019 Ernie Farmer Award are due to David Richardson, W9KHZ, in the beginning of August for presentation at the September picnic.

3. The September picnic will be held on at 6:00pm on Monday, September 9th, at Shillito Park Shelter #4.

Treasurer's Report – John Barnes, KS4GL. One new "Family" membership application was accepted by the Board of Directors at their July meeting for Don Stoutenberg and Sherry Brock who are not yet licensed. David Richardson, W9KHZ, and Sandy Gragg, KM4PHU, jointly suggested that the applicants be admitted to BARS in absence of objections, which was allowed by the general consensus of those members present:

The summary treasurer's report of amounts in bank accounts statements as of July 31, 2019, are:

| Checking account:        |             |             |  |
|--------------------------|-------------|-------------|--|
| General fund:            | \$7,752.65  |             |  |
| Coax/repeater:           | 804.98      |             |  |
| Education:               | 1,839.25    | \$10,396.88 |  |
| PayPal account:          | 3,636.32    |             |  |
| Savings account:         | 201.14      |             |  |
| Total balance of account | \$14,234.34 |             |  |
|                          |             |             |  |

Without objections, the treasure's report was acknowledged as read.

Committee Announcements.

Contest – Pete Kragh, K2UPD: (no announcements). Education – Bill Fuqua, WA4LAV: Bart Breeding, KB4FEE, and David

Richardson, W9KHZ, will be conducting Technician Class License study sessions for seven(7)to-eight(8) weeks on Wednesday evenings at 7:00pm at the Red Cross building. The classes are in response to the "Ham Radio 101" presentations in July at the Fayette County Emergency Operations Center and at the public library. The classes are open to any person interested in attaining at Technician Class Amateur Radio License. The ARRL license study-guide manuals are available for purchase at cost from BARS. BARS is authorized to procure additional study books as needed for the attendees. Any attendee who purchases the license study manual from BARS and subsequently attains their Amateur Radio License after completion of the class is eligible for membership in BARS with membership dues waived for that year.

Emergency Preparedness - Sandy Gragg, KM4P-JU.

1) The new ARES Net schedule is Tuesday evenings at 8:30pm utilizing the Lexington 146.940 repeater. A total of eighty-four(84) check-in's were logged for the month of July from Fayette, Scott, Anderson, Jessamine, Madison, and Clark Counties.

2) Seventeen(17) amateur radio operators from inside and outside of BARS provided the Wellness Communications Net during the Bluegrass 10k on July 4th.

3) A simplex net exercise is being tentatively planned for the future pending schedule and coordination resolutions.

Hamfest – David Richardson, W9KHZ: August 10th at the Jack-Pot

Bingo Hall in the Eastland Shopping Center. Volunteers are needed for set-up before and clean-up after the Hamfest.

Newsletter – Bart Breeding, KB4FEE: Nothing to announce.

Program – David Richardson, W9KHZ:

The October program will be "Proposed Bylaws". Public Relations and Membership – Bart

Breeding, KB4FEE: Nothing to announce.

Repeater – Andrew Cook, KF40WP: Bill Fuqua, WA4LAV, reported that tests of the antenna system for the repeater at the WKYT-TV station have shown no problems. The mounting bracket for one of the antennas has broken. The duplexers seem to have been de-tuned after the radio equipment cabinet was opened.

Shack – David Richardson, W9KHZ: Antenna maintenance activities

are continuing on Saturday mornings as weather permits.

Volunteer Examinations – Fernie Williams, KE6MAI: Licenses examinations will be held at the Hamfest on Saturday, August 10th .

Historian - Bill DeVore, N4DIT: Nothing to announce.

Librarian – John Barnes, KS4GL: Nothing to announce.

(continued on page 12)

| Respectfully submitted by John Barnes/KS4GL, Treasurer       Meeting, 08-05-19)         BUJEGRASS AMATEUR RADIO SOCIETY, INC.       MARS – Harvey Pry, AAHIE, and Barry         INCOME, EXPENSES, AND ACCOUNT BALANCES       as of July 31, 2019         Checking PayPal       Savings         INCOME:       Account         Account Account       Account         Ono       0.00       0.00         BARS Dues       21.00       275.96       0.00       296.96         Nothing to announce.       KF40WP: Nothing to announce.       FAVWP: The         Donations       0.00       0.00       0.00         Bars Tax       0.00       0.00       0.00         Interest       2.30       0.00       0.00       0.00         Interest       0.00       0.00       0.00       0.00         Total       57.30       275.96       0.04       33.30       BARS members for input and discussions are scheduled to be presented  | TREASURER'S REPO    |                |                    |   | (continued from page 11, General     |
|---|---------------------|----------------|--------------------|---|--------------------------------------|
| INCOME, EXPENSES, AND ACCOUNT BALANCESJackson, WB4N:<br>(no announcements).<br>Trustee: Shack - Andrew Cook,<br>KF40WP: Nothing to announce.<br>WHF Repeater - Andrew Cook, KF40WP:<br>Nothing to announce.INCOME:<br>ARRL Dues0.000.000.00BARS Dues21.00275.960.00296.96Coax/Repeater0.000.000.00Bylaws - Andrew Cook, KF40WP: The<br>Bylaws - Andrew Cook - Cook<br>Bylaws - Andrew Cook - Cook<br>Bylaws - Andrew Cook - Coo   |                     |                |                    |   | Meeting, 08-05-19)                   |
| as of July 31, 2019<br>Checking PayPal Savings<br>Account Account Account Total<br>INCOME: Account Account Account Total<br>Account Account Account Vite<br>ARRL Dues 0.00 0.00 0.00 0.00<br>Coax/Repeater 0.00 0.00 0.00 0.00<br>Education 0.00 0.00 0.00 0.00<br>Bylaws committee lead by<br>Scretary Pruce Campbell, KM4EHU, is<br>meeting each month at 6:00pm before<br>Interest 2.30 0.00 0.00 0.00<br>Scretary Pruce Campbell, KM4EHU, is<br>meeting each month at 6:00pm before<br>interest 2.30 0.00 0.00 0.00<br>Total 57.30 275.96 0.04 2333<br>Miscellaneous 0.00 0.00 0.00<br>Coax/Repeaters 0. | BLUEGRASS AMATE     | UR RADIO SOCII | ETY, INC.          |   | MARS – Harvey Fry, AA4HF, and Barry  |
| CheckingPayPal<br>AccountSavings<br>AccountTruste: Shack - Andrew Cook,<br>KF40WP: Nothing to announce.INCOME:AccountAccountTotalARRL Dues0.000.000.00BARS Dues21.00275.960.00Coax/Repeater0.000.000.00Donations0.000.000.00Education24.000.000.00Education24.000.000.00Hamfest10.000.000.00Interest2.300.000.00Sales Tax0.000.000.00Total57.30275.960.04Obartions0.000.000.00Coax/Repeaters0.000.00Coax/Repeaters0.000.00Coax/Repeaters0.000.00Coax/Repeaters0.000.00Equipment0.000.00Field Day117.21117.21Hamfest0.000.00Insurance0.000.00Newslicter0.000.00P O Box0.000.00Total145.93145.93Account Balance1445.9110396.88PayPal Balance10.0220.14Total145.9310396.88P O Box0.000.00New Busitess1000, 0.00New Busitess0.00P O Box0.00Total145.93Total145.93P O Box0.00  | INCOME, EXPENSES    | S, AND ACCOUNT | BALANCES           |   | Jackson, WB4N:                       |
| INCOME:         Account         Account         Account         Total         KF40WP: Nothing to announce.           ARRL Dues         0.00         0.00         0.00         0.00         VHF Repeater - Andrew Cook, KF40WP:           Donations         0.00         0.00         0.00         Bylaws - Andrew Cook, KF40WP:           Donations         0.00         0.00         0.00         Bylaws - Andrew Cook, KF40WP:           Donations         0.00         0.00         0.00         Bylaws - Andrew Cook, KF40WP:           Education         24.00         0.00         0.00         Evertary Bruce Campbell, KM4EHU, is           Sales Tax         0.00         0.00         0.00         meeting each moth at 6:00pm before           Interest         2.30         0.00         0.00         Meetings to revise the current Bylaws.           Miscellaneous         0.00         0.00         0.00         Meetings to revise the current Bylaws.           Total         57.30         275.96         0.04         333.30         BARS members for input and discussions are scheduled to be presented to the club membersis and the October meeting pending recommendation by the Board of Directors.           Gducation         0.00         0.00         Special Interest Groups News (none)           Field Day         117.21   | as of July 31, 2019 |                |                    |   |                                      |
| ARRL Dues         0.00         0.00         0.00         WHF Repeater         - Andrew Cook, KF40WP:           BARS Dues         21.00         275.96         0.00         296.96           Coax/Repeater         0.00         0.00         0.00         Bylaws - Andrew Cook, KF40WP: The           Bylaws - Andrew Cook, KF40WP: The         Bylaws - Andrew Cook, KF40WP: The         Bylaws - Andrew Cook, KF40WP: The           Hamfest         10.00         0.00         24.00         Secretary Bruce Campbell, KM4EHU, is           Hamfest         10.00         0.00         10.00         meeting each month at 6:00pn before           Interest         2.30         0.00         0.00         0.00           Total         57.30         275.96         0.04         333.30           BARS members for input and discussions are scheduled to be presented to the club         membership at the October meeting           ARRL Dues         0.00         0.00         0.00           Coax/Repeaters         0.00         0.00         0.00           Expenses:         0.00         0.00         0.00           Gaustion         0.00         0.00         0.00           Felection         0.00         0.00         0.00           Insurare         0.00 </td <td></td> <td>Checking Pa</td> <td>yPal Savings</td> <td></td> <td>Trustee: Shack – Andrew Cook,</td>  |                     | Checking Pa    | yPal Savings       |   | Trustee: Shack – Andrew Cook,        |
| BARS Dues         21.00         275.96         0.00         296.96         Nothing to announce.           Coax/Repeater         0.00         0.00         0.00         Bylaws - Andrew Cook, KF40WP: The           Donations         0.00         0.00         0.00         Bylaws committee lead by           Education         24.00         0.00         0.00         24.00           Interest         10.00         0.00         24.00           Interest         2.30         0.00         0.00         24.00           Miscellaneous         0.00         0.00         0.00         0.00           Total         57.30         275.96         0.04         333.30           BARS meeting is open to all         BARS members for input and discussions are scheduled to be presented to the club meeting is open to all           Coax/Repeaters         0.00         0.00         0.00           Coak/Repeaters         0.00         0.00         0.00           Education         0.00         0.00         0.00           Education         0.00         0.00         0.00           Education         0.00         0.00         Special Interest Groups News (none)           Gaax/Repeater         0.00         0.00         Special   | INCOME:             | Account Acco   | ount Account Total | l | KF4OWP: Nothing to announce.         |
| Coax/Repeater         0.00         0.00         0.00         0.00         Bylaws - Andrew Cook, KF40WP: The<br>Bylaws committee lead by<br>Secretary Bruce Campbell, KM4EHU, is<br>meeting each month at 6:00pm before<br>the General Meetings and the Directors'<br>the General Meetings Meetings Meetings Meetings Monday, August<br>19th, 7:30pm.<br>Pictors Meeting: Monday, August<br>19th, 7:30pm.           ACCOUNT BALANCES<br>PayPal Balance         1048551         10396.88<br>10396.88         Spretar Meeting: Monday, September<br>16th, 6:00pm.           PayPal Balance         14046.97         14234.34         Bylaws Committee Meeting: Monday, September<br>16th, 7:30pm.           * Fund-specific balances in Checking Account<br>General         7865.28         7752.65<br>74b, 7:30pm.           * Fund-s   | ARRL Dues           | 0.00 🔜         | 0.00 0.00 0.00     | ) | VHF Repeater – Andrew Cook, KF4OWP:  |
| Donations         0.00         0.00         0.00         Bylaws committee lead by<br>Secretary Bruce Campbell, KM4EHU, is<br>Secretary Bruce Campbell, KM4EHU, is<br>meeting each month at 6:00pm before<br>the General Meetings and the Directors'<br>Meetings to revise the current Bylaws.<br>The committee meeting is open to all<br>BARS members for input and discus-<br>sion. The proposed Bylaws revisions are<br>scheduled to be presented to the club<br>membership at the October meeting<br>pending recommendation by the Board<br>of Directors.           CARRL Dues         0.00         0.00         0.00           Cax/Repeaters         0.00         0.00         0.00           Cax/Repeaters         0.00         0.00         Special Interest Groups News (none)           Equipment         0.00         0.00         Old Business. (none)           Field Day         117.21         117.21           Hamfest         0.00         0.00           Nuscellaneous         25.00         0.00           Newsletter         0.00         0.00           Newsletter         0.00         0.00           Nuncel Salance         37.2         3.72           P O Box         0.00         0.00           Tatal         145.93         145.93           P O Box         0.00         0.00     <  | BARS Dues           | 21.00 27       | 5.96 0.00 296.96   |   | Nothing to announce.                 |
| Donations         0.00         0.00         0.00         Bylaws committee lead by<br>Secretary Bruce Campbell, KM4EHU, is<br>Secretary Bruce Campbell, KM4EHU, is<br>meeting each month at 6:00pm before<br>the General Meetings and the Directors'<br>Meetings to revise the current Bylaws.<br>The committee meeting is open to all<br>BARS members for input and discus-<br>sion. The proposed Bylaws revisions are<br>scheduled to be presented to the club<br>membership at the October meeting<br>pending recommendation by the Board<br>of Directors.           CARRL Dues         0.00         0.00         0.00           Cax/Repeaters         0.00         0.00         0.00           Cax/Repeaters         0.00         0.00         Special Interest Groups News (none)           Equipment         0.00         0.00         Old Business. (none)           Field Day         117.21         117.21           Hamfest         0.00         0.00           Nuscellaneous         25.00         0.00           Newsletter         0.00         0.00           Newsletter         0.00         0.00           Nuncel Salance         37.2         3.72           P O Box         0.00         0.00           Tatal         145.93         145.93           P O Box         0.00         0.00     <  | Coax/Repeater       | 0.00           | 0.00 0.00 0.00     | ) | Bylaws – Andrew Cook, KF40WP: The    |
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| Education 1815.25 1839.25 Recorded and submitted by:  | General             | 7865.28        | 7752.65            | 5 | -                                    |
|   | Coax/Repeater       | 804.98         | 804.98             | 3 |                                      |
| Total Checking10485.5110396.88Bruce A. Campbell, KM4EHU Secretary   |                     | 1815.25        | 1839.25            | 5 |                                      |
|   | Total Checking      | 10485.51       | 10396.88           | } | Bruce A. Campbell, KM4EHU Secretary  |

Newsletter of the Bluegrass Amateur Radio Society, Inc.

Lexington, Kentucky



Sponsored by the

## Central Kentucky Amateur Radio Society

September 14, 2019

8:00 AM - 1:00 PM (Eastern time)

Indoor Climate Controlled Event; Plus free outdoor tailgating space (with ticket purchase.) Ham Exams (W5YI-VEC) (testing begins 12:30 ET)

Food Truck VENDORS: TAW Main & door prizes: HamCall DVD Forums (Topic Pending) Silent Auction

All Proceeds help support CKARS, it's repeaters and other community support events.

Must be present to win Door and Main Prizes; Drawing at 12:00

Extra chance tickets available at the door.

At the MADISON COUNTY FAIRGROUNDS

3237 Old KY 52, Richmond, KY

(Turn East at traffic light 13. Only 6 easy miles from I-75, Exit 90. Talk-in 145.370, pl 192.8)



Mmmm! A light snack is in order after a long night chasing DX



Oops! Forgot to ground all pieces of equipment to one common ground!

## Contest Corral

September 2019 Check for updates and a downloadable PDF version online at www.arrl.org/contests. Refer to the contest websites for full rules, scoring information, operating periods or time limits, and log submission information.

| Date                | Start -<br>e-Time    |                     | sh<br>œ-Time | Bands                        | Contest Name                                       | Mode        | Exchange   | Sponsor's Website  |
|---------------------|----------------------|---------------------|--------------|------------------------------|--|-------------|--|--|
| 1                   | 1800                 | 2                   | 0300         | 1.8-UHF                      | Tennessee QSO Party                                | CW Ph Dig   | RS(T), county or SPC   | tnqp.org/rules   |
| 2                   | 2300                 | 3                   | 0300         | 1.8-50                       | MI QRP Labor Day CW Sprint                         | CW          | RST, SPC, mbr or power   | www.migrp.net/contest  |
| 3                   | 0100                 | 3                   | 0300         | 3.5-28                       | ARS Spartan Sprint                                 | CW          | RST, SPC, power  | arsqrp.blogspot.com  |
| 4                   | 2000                 | 4                   | 2100         | 3.5                          | UKEICC 80-Meter Contest                            | Ph          | 4-char grid square   | www.ukeicc.com   |
| 5                   | 1700                 | 5                   | 2100         | 28                           | NRAU 10-Meter Activity Contest                     | CW Ph Dig   | RS(T), 6-char grid square  | nrau.net/activity-contests   |
| 5                   | 1900                 | 5                   | 2100         | 1.8-50                       | SKCC Sprint Europe                                 | CW          | RST, SPC, name, mbr or power   | www.skccgroup.com  |
| 7                   | 0000                 | 7                   | 2359         | 3.5-28                       | Russian RTTY WW Contest                            | Dig         | RST, 2-letter oblast or CQ zone  | www.grz.ru/contest/detail/93   |
| 7                   | 0000                 | 8                   | 2359         | 3.5-28                       | All Asian DX Contest, Phone                        | Ph          | RS, 2-digit age  | www.jarl.org/English   |
| 7                   | 0600                 | 7                   | 0800         | 7,14                         | Wake-Up! QRP Sprint                                | CW          | RST, serial, suffix of previous QSO                                      | grp.ru/contest/wakeup  |
| 7                   | 1200                 | 8                   | 2359         | 1.8-50                       | SKCC Weekend Sprintathon                           | CW          | RST, SPC, name, mbr or "none"  | www.skccgroup.com  |
| 7                   | 1300                 | 8                   | 0100         | 1.8-UHF                      | Nebraska QSO Party                                 | CW Ph       | County or SPC (FT8: grid square)   | gcwa.org/2019-ne-gso-party-rules.pdf   |
| 7                   | 1300                 | 8                   | 1259         | 1.8-28                       | IARU Region 1 Field Day, SSB                       | Ph          | RST, serial  | darc.de/der-club/referate/<br>conteste/iaru-region-1-fieldday/en               |
| 7                   | 1300                 | 8                   | 1300         | 3.5-28                       | RSGB SSB Field Day                                 | Ph          | RS, serial   | www.rsqbcc.org/hf  |
| 7                   | 1400                 | 7                   | 2200         | 3.5-28                       | Ohio State Parks on the Air                        | Ph          | OH park abbreviation or "OH" or SPC                                      | ospota.org   |
| 7                   | 1600                 |                     | 1900         | 3.5                          | AGCW Straight Key Party                            | CW          | RST, serial, class, name, age  | www.agcw.org/index.php/en  |
| -7                  |                      |                     |              |                              | PODXS 070 Club Jay Hudak                           |             |  | • • • • •  |
| 7                   | 2000                 | 8                   | 2000         | 3.5                          | Memorial 80-Meter Sprint                           | Dig         | RST, SPC<br>Other station's call, your call,                             | www.podxs070.com   |
| <mark>8</mark><br>8 | 0000<br>1000         | <mark>8</mark><br>8 | 0400<br>1400 | 3.5-14<br>144                | North American Sprint, CW<br>WAB 144 MHz QRO Phone | CW<br>Ph    | serial, name, SPC<br>RS, serial, WAB square or country                   | ncjweb.com<br>wab.intermip.net   |
| 8<br>9              | 0000                 | 9                   | 0200         | 1.8-28                       | 4 States QRP Group                                 | CW Ph       | RS, senal, WAB square or country<br>RS(T), SPC, mbr or power             | wab.intermip.net<br>www.4sqrp.com  |
| -                   |                      |                     |              |                              | Second Sunday Sprint                               |             |  | •••  |
| 9<br>14             | 1900<br>0000         | 9<br>14             | 2030<br>2359 | 3.5<br>1.8-VHF               | RSGB 80-Meter Autumn Series, SSB<br>FOC QSO Party  | Ph<br>CW    | Other station's call, your call, serial, name<br>RST, name, mbr (if any) | www.rsgbcc.org/hf<br>g4foc.org/qsoparty  |
| 14                  | 0000                 | 15                  | 2359         | 3.5-28                       | WAE DX Contest, SSB                                | Ph          | RS, serial   | darc.de/der-club/referate/referat-<br>conteste/worked-all-europe-dx-contest/en |
| 14                  | 1000                 | 15                  | 1000         | 1.8-28                       | SARL Field Day Contest                             | CW Ph Dig   | RS(T), # of transmitter,<br>category, province or "DX"                   | www.sarl.org.za  |
| 14                  | 1400                 | 15                  | 2000         | All                          | Texas QSO Party                                    | CW Ph Dig   | RS(T), county or SPC   | www.txqp.net   |
| 14                  | 1500                 | 15                  | 0300         | 3.5-28                       | Alabama QSO Party                                  | CW Ph       | RS(T), county or SPC   | www.alabamaqsoparty.org  |
| 14                  | 1500                 | 15                  | 0959         | 3.5-28                       | Russian Cup Digital Contest                        | Dig         | Serial, 4-char grid square   | grz.ru/contest/detail/86.html  |
| 14                  | 1800                 | 16                  | 0259         | 50 and up                    | ARRL September VHF Contest                         | CW Ph Dig   | 4-char grid square   | www.arrl.org/september-vhf   |
| 15                  | 0000                 | 15                  | 0400         | 3.5-14                       | North American Sprint, RTTY                        | Dig         | Other station's call, your call, serial, name, SPC                       | ncjweb.com   |
| 15                  | 1300                 |                     | 0700         | 1.8-144                      | Classic Exchange, CW                               | CW          | Name, RST, SPC, rcvr/xmtr model  | www.classicexchange.org  |
| 15                  |                      | 15                  | 2059         | 3.5-28                       | BARTG Sprint 75                                    | Dig         | Serial   | bartg.org.uk   |
| 16                  | 0100                 |                     | 0300         | 1.8-28                       | Run for the Bacon QRP Contest                      | CW          | RST, SPC, mbr or power   | qrpcontest.com/pigrun  |
| 18                  | 1900                 | 18                  | 2030         | 3.5                          | RSGB 80-Meter Autumn Series, CW                    | CW          | Other station's call, your call, serial, name                            | www.rsgbcc.org/hf  |
| 19                  | 0030                 | 19                  | 0230         | 3.5-14                       | NAQCC CW Sprint                                    | CW          | RST, SPC, mbr or power   | naqcc.info   |
| 20                  | 2100                 | 20                  | 2359         | 3.5                          | AGB NEMIGA Contest                                 | CW Ph Dig   | RST, serial, mbr (if any)  | www.ev5agb.com   |
| 21                  | 0000                 | 22                  | 2359         | 2.3 GHz<br>and Up            | ARRL EME Contest                                   | CW Ph Dig   | Signal report  | www.arrl.org/eme-contest   |
| 21                  | 0000                 | 22                  | 2359         | All                          | Collegiate QSO Party                               | CW Ph Dig   | School name, school mascot,<br>operating class                           | collegiateqsoparty.com   |
| 21                  | 0600                 | 22                  | 2359         | 10 GHz<br>to light           | ARRL 10 GHz and Up Contest                         | CW Ph Dig   | 6-char Maidenhead locator  | www.arrl.org/10-ghz-up   |
| 21                  | 1000                 | 22                  | 1000         | 50 ,70,<br>144, 432,<br>1296 | SARL VHF/UHF Digital Contest                       | Dig         | RST, 6-char grid locator   | www.sarl.org.za  |
| 21                  | 1200                 | 22                  | 1200         | 3.5-28                       | Scandinavian Activity Contest, CW                  | CW          | RST, serial  | www.sactest.net  |
| 21                  | 1200                 | 22                  | 1200         | 1.8-28                       | All Africa International DX Contest                | CW Ph Dig   | RS(T), serial  | www.sarl.org.za  |
| 21                  | 1400                 | 21                  | 1800         | 144, 432                     | AGCW VHF/UHF Contest                               | CW          | RST, serial, power class, 6-char grid                                    | www.agcw.org/index.php/en  |
| 21                  | 1400                 | 22                  | 0200         | Áll                          | Iowa QSO Party                                     | CW Ph Dig   | RS(T), county or SPC   | www.w0yl.com/IAQP  |
| 21                  | 1500                 | 21                  | 2100         | 1.8-28                       | QRP Afield   | CW Ph Dig   | RS(T), SPC, mbr or power   | www.newenglandqrp.org  |
| 21                  | 1600                 | 22                  | 0359         | 3.5-28                       | New Jersey QSO Party                               | CW Ph Dig   | RS(T), county or SPC   | www.k2td-bcrc.org/njqp   |
| 21                  | 1600                 | 22                  | 2200         | All                          | New Hampshire QSO Party                            | CW Ph Dig   | RS(T), county or SPC   | www.w1wqm.org/nhqso  |
| 21                  | 1600                 | 22                  | 2359         | 1.8-144                      | Washington State Salmon Run                        | CW Ph Dig   | RS(T), county or SPC   | www.wwdxc.org/salmonrun  |
| 21                  | 1800                 | 21                  | 1959         | 1.8-50                       | Feld Hell Sprint                                   | Dig         | RST, mbr, SPC, grid  | sites.google.com/site/feldhellclub   |
| 22                  | 1300                 | 25                  | 0700         | 1.8-144                      | Classic Exchange, Phone                            | Ph          | Name, RS, SPC, rcvr/xmtr model   | www.classicexchange.org  |
| 23                  | 1900                 |                     | 2300         | 144                          | 144 MHz Fall Sprint                                | CW Ph Dig   | 4-char grid square   | svhfs.org  |
| 25                  | 0000                 | 25                  | 0200         | 1.8-28                       | SKCC Sprint  | CW          | RST, SPC, name, mbr or power   | www.skccgroup.com  |
| 25                  | 2000                 |                     | 2100         | 3.5                          | UKEICC 80-Meter Contest                            | CW          | 4-char grid square   | www.ukeicc.com   |
| 06                  | 1900                 | 26                  | 2030         | 3.5                          | RSGB 80-Meter Autumn Series, Data                  | Dig         | Other station's call, your call, serial, name                            | www.rsgbcc.org/hf  |
| 26                  |                      | 20                  | 2359         | 3.5-28                       | CQ Worldwide DX Contest, RTTY                      | Dig         | RST, CQ zone, SP (if US/VE)  | www.cqwwrtty.com   |
| 28                  | 0000                 |                     |              |                              |  |             |  |  |
|                     | 0000<br>1200<br>1300 | 29                  | 1200<br>0400 | 1.8-28<br>1.8-28             | Maine QSO Party<br>QCX Challenge                   | CW Ph<br>CW | RS(T), county or SPC<br>RST, name, SPC, rig                              | ws1sm.com/MEQP.html<br>grp-labs.com/party.html                                 |

All dates refer to UTC and may be different from calendar dates in North America. Contests are not conducted on the 60-, 30-, 17-, or 12-meter bands. 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 WA7BNM 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, WA7BNM, in providing this service.

Newsletter of the Bluegrass Amateur Radio Society, Inc.

Lexington, Kentucky

