



ARRL Standard



Pray for our  
Troops



God Bless America!

# QUA/HAMnews

March 2019

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**ALL MEMBERS NEED TO UPDATE CONTACT INFORMATION  
WITH JOHN BARNES**

**March 4, 2019 meeting will start at 7:00pm**

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Published and Distributed Monthly by the



Glenn E. Welman/KF4NB  
Memorial BBS  
145.010 and 145.090

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MARS Station AAV4CAB

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146.160/.760

ATV Repeater: KY4AT  
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 (base-ment 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 March program will be a discussion of the Skywarn Program. The discussion will be led by Joe Sullivan with the Louisville National Weather Service Office.

Reports of the RECORD OF THE BY-LAWS COMMITTEE MEETINGS will not be published in the newsletter due to length.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.



"If freedom is to survive and prosper, it will require the sacrifice, the effort and the thoughtful attention of every citizen."  
- John F. Kennedy

## CENTRAL KENTUCKY HAMFEST

### Saturday August 10, 2019

QUA/HAMnews

March 2019

### Meeting Notice

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

The general meeting of the Bluegrass Amateur Radio Society, Inc., will be held Monday, March 4, 2019, at 7:30 PM, in Meeting Room B, second floor of the Red Cross Building, 1450 Newtown Pike, Lexington.

The program will be presented by Joe Sullivan with the Louisville, KY, National Weather Service office.

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.

### What is SKYWARN™?

Welcome to the Pittsburgh, Pennsylvania National Weather Service SKYWARN™ program. SKYWARN™ is a group of trained severe weather spotters that report directly to the National Weather Service.

Year after year, reports from SKYWARN™ observers have assisted the NWS in issuing timely warnings based on REAL-TIME reports throughout our 36 County Warning Area covering parts of PA, WV, OH, and MD. The NWS's primary mission is to issue warnings to protect life and property.

The ground truth reports from SKYWARN™ spotters are a vital link in using advanced radar data and meteorological skills to carry out our mission. Their observations also provide us with information in compiling documentation of severe weather events and verification of warnings. These reports become part of the United States Storm Data publication, which is used by researchers and also provides climatological data on a wide variety of unusual weather phenomenon, including statistics on death, injuries, and property and crop damage.

Over half of our 1600 + spotters are also licensed amateur radio operators (a.k.a hams). The hams throughout many of our counties meet and organize their spotter efforts on one radio frequency (network or nets), when severe weather threatens. Amateur Radio Emergency Services (ARES) provides communication support for the SKYWARN™ program.

SKYWARN™ also publishes a newsletter to its spotters. The latest news about the SKYWARN™ program can always be found here

Interested in becoming a SKYWARN™ spotter? Check out our list of upcoming training sessions

**<https://www.weather.gov/pbz/skywhat>**

**Field Day June 22-23, 2019**

Plan now to join us for the annual field day.

### **SKYWARN Amateur Radio Network**

<https://www.weather.gov/oun/amateurradio>

The National Weather Service (NWS) Forecast Office in Norman uses amateur radio as one method of communicating with spotter groups and emergency management organizations throughout our area of responsibility. For decades, amateur radio operators have provided invaluable service in support of the SKYWARN storm spotter program by using their unique communications capabilities to share critical information between the NWS, the local emergency management officials and storm spotter networks. Thanks to the hard work and dedication of amateur radio groups throughout the area, a SKYWARN amateur radio network has been established to facilitate two way communication between NWS Norman and local emergency management agencies and storm spotter networks. The network is designed as a "liaison net" during severe weather operations, serving as a collection point where local spotter networks (operating on their local repeaters and frequencies) can collect and relay reports and information to the NWS in Norman. The local net control stations gather information from individual spotters and relay that information to the NWS via the liaison net.

### **NATIONAL WEATHER SERVICE PRODUCTS VIA AMATEUR "HAM" RADIO**

<http://www.nws.noaa.gov/os/marine/ham.htm>

Amateur radio, commonly referred to as "Ham" radio, is popular among the yachting and small boat community as a means of providing communications and receiving weather information. Amateur radio can be operated nearly worldwide, however, certain restrictions may exist and advanced permits may be required when operating within the territorial limits of another country. Within the U.S., amateur radio is regulated by the FCC. Information on licensing and all other aspects of amateur radio may be obtained by contacting the American Radio Relay League (ARRL) at 860-594-0200.

**NEWS FLASH** - The FCC has announced that beginning April 15, 2000 the requirement for proficiency of the morse code at 13 or 20 words-per-minute will no longer be required to obtain amateur radio operating privileges in the HF shortwave bands. Click here for further details.

Among the many aspects of amateur radio, "Hams" operate several maritime "nets" where information of common interest to mariners, such as weather, is exchanged. These nets are extremely popular in areas of the world which have a large yachting population and where weather is dynamic, such as in the Caribbean. Weather reports are typically exchanged in voice via single sideband although the popularity of digital modes such as SITOR/AMTOR, radioteletype

(RTTY), PACTOR I, PACTOR II, PACTOR III, PSK31, and e-mail exchanges, such as the WinLink 2000 Global Radio Network (includes an option to download more than 450 graphic and text-based worldwide weather products), are growing rapidly. Information on amateur radio maritime nets may be found by contacting the ARRL or using an Internet search engine to search on such topics as "ham radio nets", or "maritime amateur radio". Click here to visit a webpage listing many of these nets.

Visit The British Columbia Boaters Net  
 Visit The Caribbean Maritime Mobile Net  
 Visit The Hurricane Watch Net  
 Visit The Italian Amateur Radio Maritime Service Net  
 Visit The Maritime Mobile Service Network  
 Visit The Manana Net  
 Visit The Northwest Boaters Net  
 Visit The Pacific Seafarer's Net  
 Visit The Seafarer's Net  
 Visit The U.S. Power Squadrons Net  
 Visit The Waterway Net  
 Visit The Cruiseheimers Net

### **MAROB**

Many radio amateurs participate in the MAROB Program. The MAROB Program is an experimental voluntary marine observation program of the National Weather Service in the early stages of development.

(continued on page 3)

(continued from 2, National Weather Service Products

### SKYWARN™

Many radio amateurs participate in the SKYWARN Program. SKYWARN is a nationwide network of volunteer weather spotters who report to and are trained by the National Weather Service. These spotters report many forms of significant or severe weather such as Severe Thunderstorms, Tornadoes, Hail, Heavy Snow, or Flooding. Contact your local National Weather Service Forecast Office to learn about SKYWARN activities in your area.

### National Weather Service, ARRL Team Up for On-Air Event

-- The National Weather Service and ARRL will cosponsor an on-the-air event to recognize the contribution of SKYWARN volunteers. The NWS/ARRL SKYWARN Recognition Day is typically the first weekend in December. See the NWS/ARRL SKYWARN Recognition Day Web page.

### APRSWXNET/Citizen Weather Observer Program (CWOP)

Originally, APRSWXNET was developed as a way for amateur radio operators to transmit weather data to the NOAA's Forecast Systems Laboratory (FSL) in Boulder, Colorado for research. The success of this effort and the amount of data routinely collected have led to use by other research labs and by operational parts of NOAA including the National Weather Service. The system has also been expanded to allow collection of observations via the Internet, thereby expanding the program to persons

not holding an amateur radio license. The program offers the potential of greatly improving the accuracy of marine forecasts and timeliness of warnings. An example would be a network of volunteer automated weather stations installed at marinas and yacht clubs along the coast. For further information, visit the CWOP Webpage

Nearby CWOP weather data may be retrieved via the Internet as in the following examples where 20902 is the zip code, or the position is 39.1N, 77.1W, or via NOAA's NCEP Central Operations MADIS Database which offers a Display of Surface Data .

### "HAMLAND" SECURITY: Amateur Radio's Place in Securing the Homeland

<https://medium.com/homeland-security/ham-land-security-amateur-radio-s-place-in-securing-the-homeland-710f7612387>

The Amateur Radio Emergency Service (ARES) is a corps of trained amateur radio operators volunteers organized to assist in public service and emergency communications

During times of disaster, homeland security resources at all levels of government are often stretched to capacity. The whole-of-government approach involving local, county, state and federal agencies is sometimes not enough, especially in the realm of communications. That is where a dedicated group of private hobbyists, known as amateur radio operators, or "hams"

as they call themselves, come into play. This community of tinkers, experimentalists and lovers of all things radio, operate their own licensed radio stations on which they communicate with other enthusiasts around the globe.

Having family members in the ham community, I can attest firsthand to the allure this hobby has over people. As a young boy, I saw my Dad feverishly tapping out Morse code to amateurs around the world. I watched in amazement as he communicated from his basement "shop" with my brother stationed in the Philippines during the Viet Nam war.

"Hams" use a variety of methods to communicate including, voice, computer and Morse code. They are adept at bouncing their signals off the upper levels of the atmosphere, satellites or even the moon for long distance communications. Their "rigs" include simple handheld radios up to a room full of gear.

Today's hams carry on a hobby almost as old as radio itself. With the passage of the Radio Act in 1912, the first amateur radio licenses were issued. Since then, hams have played a role in facilitating communications during disasters. Their ad hoc networking, decentralized operational locations and flexible operating environment frees them from the procedural constraints which often encumber government-run communications networks. This makes hams an ideal adjunct to emergency preparedness response and recovery operations.

The value of amateur radio operators in homeland security was recognized even before WWII, when the Civil Defense Agency

(continued on page 4)



(continued from page 3, "Ham-land")

incorporated hams in its Civil Defense Communications System in 1941. During the war years, hams were only permitted to operate within the War Emergency Radio Service, an invaluable communications asset on the home front. A 1943 article in Popular Mechanics notes their use in case of an attack or disaster on the mainland.

Today, hams continue to provide vital emergency communications during disasters. According to a 2010 article in Emergency Management, the American Radio Relay League, a nationwide organization of amateur radio operators, has signed memorandums of understanding with the Federal Emergency Management Agency (FEMA), the American Red Cross, the National Weather Service and others to provide communications support in times of need. The National Emergency Communications Plan, revised in 2014 by the US Department of Homeland Security, includes amateur radio to "support and sustain communications in a disaster or emergency."

Hams proved their worth during a 2007 storm in Oregon, where communications were severed with three counties. Hams were used to make vital requests for emergency services to the state's Emergency Management Office. In the aftermath of Hurricane Katrina, ham radio operators are credited with saving many lives, including those of fifteen people stranded on a New Orleans rooftop. According to NBC News, it was a ham's call for rescue that saved the day.  
(continued on page 11)

Cave City Hamfest  
03/02/2019  
Cave City Convention Center  
Cave City, KY 42127

The April program will be presented by David Richardson and will be about GO-BAGS.

### DMR Informational Meeting

A DMR meeting will be held at the ITARC 41st Annual Hamfest, April 6, 2019, at Elizabethtown, KY. A third meeting to be held later.

You cannot escape the responsibility of tomorrow by evading it today.

-Abraham Lincoln-

### DIRECTOR'S Meeting Minutes of January 21, 2019 Bluegrass Amateur Radio Society (BARS) Red Cross Building, Lexington, Ky.

The January 2019, Directors' Meeting was called to order at 7:40pm by First Vice President Bill Fuqua, WA4LAV.

In attendance were:  
2nd Vice President –

David Richardson, W9KHZ;  
Treasurer – John Barnes, KS4GL;  
Secretary – Bruce Campbell, KM4EHU;

Director-at- Large – Mark Elliott, KN4HVV

MARS Representatives - Barry Jackson, WB4N, and Harvey Frye, AA4HF, plus Bart Breeding, KB4FEE, Michael Saulsbury, WB0JZO, and Sandy Gragg, KM4PJJU.

"Under democracy one party always devotes its chief energies to trying to prove that the other party is unfit to rule and both commonly succeed, and are right."

- H.L. Mencken

### Treasurer's Report.

Treasurer John Barnes, KS4GL, presented one new application for membership that was received during the past month: Todd Samuelson, KB2CST. David Richardson, W9KHZ moved, and Bruce Campbell, KM4EHU, seconded that the three applications be accepted and presented at the February General Membership meeting for approval

Treasurer John Barnes, KS4GL, submitted the summary treasurer's report of amounts available in bank deposits as of December 31, 2018, are:

Checking account:

General fund: \$8,986.11

Coax/repeater 804.98

Education:

1,909.29

\$11,700.38

PayPal account:

3,139.44

Savings account:

200.86

Total balance of accounts:

\$15,040.68

David Richardson, W9KHZ moved, and Bruce Campbell, KM4EHU, seconded, that the treasurer's report be accepted, which was approved unanimously.

### Secretary's Report

Secretary Bruce Campbell, KM4EHU, reported that the ARRL Annual report will be  
(continued on page 6)

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

# Contest Corral

# March 2019

Check for updates and a downloadable PDF version online at [www.arrl.org/contests](http://www.arrl.org/contests).

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

Start - Finish Date-Time	Start - Finish Date-Time	Bands	Contest Name	Mode	Exchange	Sponsor's Website
2 0000	3 2359	1.8-28	ARRL International DX Contest, SSB	Ph	W/VE: RS, SP, Non-W/VE: RS, power	<a href="http://www.arrl.org/arrl-dx">www.arrl.org/arrl-dx</a>
2 0000	10 2359	3.5, 7, 21, 28, 144	Novice Rig Roundup	CW	RST, QTH, name, class	<a href="http://novicergroundup.com">novicergroundup.com</a>
2 0600	2 0800	7-14	Wake-Up! QRP Sprint	CW	RST, serial, suffix of previous QSO	<a href="http://qrp.ru/contest/wakeup">qrp.ru/contest/wakeup</a>
2 1800	3 1359	1.8-28	Open Ukraine RTTY Championship	Dig	2-letter region (state/province/canton), serial	<a href="http://krs.ho.ua/openrtty">krs.ho.ua/openrtty</a>
3 0700	3 1100	3.5	UBA Spring Contest, CW	CW	RST, serial, UBA section (if any)	<a href="http://www.uba.be/hf/contest-rules">www.uba.be/hf/contest-rules</a>
3 1200	3 1400	7	SARL Hamnet 40-Meter Simulated Emergency Contest	Ph	RS, serial	<a href="http://www.sarl.org.za">www.sarl.org.za</a>
3 1200	3 2200	3.5	NSARA Contest	CW Ph Dig	RS(T), county (if Nova Scotia)	<a href="http://nsara.ve1cfy.net/?page_id=82">nsara.ve1cfy.net/?page_id=82</a>
4 2000	4 2130	3.5	RSGB 80-Meter Club Championship, Data	Dig	RST, serial	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
5 0200	5 0400	3.5-28	ARS Spartan Sprint	CW	RST, SPC, power	<a href="http://arsqrp.blogspot.com">arsqrp.blogspot.com</a>
5 1900	5 2100	3.5	AGCW YL-CW Party	CW	RST, serial, name	<a href="http://agcw.org/index.php/en">agcw.org/index.php/en</a>
6 2000	6 2100	3.5	UKEICC 80-Meter Contest	Ph	4-char grid square	<a href="http://www.ukicc.com">www.ukicc.com</a>
7 1800	7 2200	28	NRAU 10-Meter Activity Contest	CW Ph Dig	RS(T), 6-char grid square	<a href="http://nrau.net/activity-contests">nrau.net/activity-contests</a>
7 2000	7 2200	1.8-28	SKCC Sprint Europe	CW	RST, SPC, name, mbr or power	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
9 0000	9 2359	3.5-28	YB DX RTTY Contest	Dig	RST, serial	<a href="http://rtty.ybdxcontest.com">rtty.ybdxcontest.com</a>
9 1000	10 1000	50-1296	SARL VHF/UHF Analogue Contest	CW Ph	RS(T), 6-char grid	<a href="http://www.sarl.org.za">www.sarl.org.za</a>
9 1000	10 1000	3.5-28	RSGB Commonwealth Contest	CW	RST, serial	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
9 1200	10 1200	3.5-144	F9AA Cup, SSB	Ph	RST, serial	<a href="http://www.site.urc.asso.fr">www.site.urc.asso.fr</a>
9 1200	10 1200	28	South America 10 Meter Contest	CW Ph	RS(T), CQ zone	<a href="http://sa10m.com.ar">sa10m.com.ar</a>
9 1200	10 2359	1.8-50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
9 1400	9 2000	3.5-28	AGCW QRP Contest	CW	RST, serial, class, mbr or "NM"	<a href="http://www.agcw.org">www.agcw.org</a>
9 1500	10 1500	1.8	Stew Perry Topband Challenge	CW	4-char grid square	<a href="http://www.kkn.net/stew">www.kkn.net/stew</a>
9 1500	10 2100	3.5-50	Oklahoma QSO Party	CW Ph Dig	RS(T), county or SPC	<a href="http://k5cm.com/okqp.htm">k5cm.com/okqp.htm</a>
9 1600	10 1600	3.5-28	EA PSK63 Contest	Dig	RSQ, EA province code or serial	<a href="http://concursos.ure.es/en">concursos.ure.es/en</a>
9 1800	10 0559	3.5	TESLA Memorial HF CW Contest	CW	RST, serial, 4-char grid	<a href="http://www.radiosport.org.rs">www.radiosport.org.rs</a>
9 1800	10 1800	1.8-50	QCWA QSO Party	CW Ph Dig	Year first licensed, name, SPC or chapter	<a href="http://www.qcwa.org">www.qcwa.org</a>
9 1900	10 1900	1.8-28	Idaho QSO Party	CW Ph Dig	RS(T), county or SPC	<a href="http://idahoarrl.info/qso-party">idahoarrl.info/qso-party</a>
9 2200	9 2300	1.8-28	QRP ARCI Spring Thaw SSB Shootout	Ph	RS, SPC, mbr or power	<a href="http://www.qrparci.org/contests">www.qrparci.org/contests</a>
10 0000	10 0400	3.5-14	North American Sprint, RTTY	Dig	Other station's call, your call, serial, name, SPC	<a href="http://ncjweb.com">ncjweb.com</a>
10 0700	10 1100	144	UBA Spring Contest, 2 Meters	CW Ph	RS(T), serial, UBA section (if any)	<a href="http://www.uba.be/hf/contest-rules">www.uba.be/hf/contest-rules</a>
10 1800	10 2200	3.5	WAB 3.5 MHz Phone/CW	CW Ph	RS(T) serial, WAB square or country	<a href="http://wab.intermip.net">wab.intermip.net</a>
10 1800	11 0100	All	Wisconsin QSO Party	CW Ph Dig	WI county or SPC	<a href="http://warac.org/wqp/wqp.htm">warac.org/wqp/wqp.htm</a>
11 0000	11 0200	1.8-28	4 States QRP Group Second Sunday Sprint	CW Ph	RS(T), SPC, mbr or power	<a href="http://www.4sqrp.com">www.4sqrp.com</a>
13 2000	13 2130	3.5	RSGB 80-Meter Club Championship, CW	CW	RST, serial	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
13 2300	17 2300	7-14	AWA John Rollins Memorial DX Contest	CW	RST, equipment type and year	<a href="http://www.antiquewireless.org">www.antiquewireless.org</a>
16 0200	18 0200	3.5-28	BARTG HF RTTY Contest	Dig	RST, serial, 4-digit UTC time	<a href="http://www.bartg.org.uk">www.bartg.org.uk</a>
16 1200	17 1200	1.8-28	Russian DX Contest	CW Ph	RS(T), oblast or serial	<a href="http://www.rdxcc.org">www.rdxcc.org</a>
16 1400	16 1800	144, 432	AGCW VHF/UHF Contest	CW	RST, serial, class, 6-char grid	<a href="http://agcw.org/index.php/en">agcw.org/index.php/en</a>
16 1400	17 0200	1.8-144	Louisiana QSO Party	CW Ph Dig	RS(T), parish or SPC	<a href="http://laqp.louisianacontestclub.org">laqp.louisianacontestclub.org</a>
16 1400	17 2359	All	Virginia QSO Party	CW Ph Dig	Serial, county or SPC	<a href="http://qsl.net/sterling/VA_QSO_Party">qsl.net/sterling/VA_QSO_Party</a>
16 2000	16 2159	1.8-28	Feld Hell Sprint	Dig	RST, mbr, SPC, grid	<a href="http://sites.google.com/site/feldhellclub">sites.google.com/site/feldhellclub</a>
17 0700	17 1100	3.5	UBA Spring Contest, SSB	Ph	RS, serial, UBA section (if any)	<a href="http://www.uba.be/hf/contest-rules">www.uba.be/hf/contest-rules</a>
18 0100	18 0300	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or power	<a href="http://qrpcontest.com/pigrun">qrpcontest.com/pigrun</a>
18 1800	18 2059	3.5-7	Bucharest Contest	CW Ph Dig	RS(T), serial, county or country	<a href="http://yo3test201x.blogspot.ro/p/blog-page.html">yo3test201x.blogspot.ro/p/blog-page.html</a>
19 1700	24 1700	3.5-144	CLARA Chatter Party	CW Ph	RS(T), name, SPC	<a href="http://www.clarayl.ca">www.clarayl.ca</a>
21 0030	21 0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	<a href="http://naqcc.info">naqcc.info</a>
23 0000	23 2359	1.8-VHF	FOC QSO Party	CW	RST, name, mbr (if any)	<a href="http://g4foc.org/qso-party">g4foc.org/qso-party</a>
23 1200	24 1200	3.5-28	UK/EI DX Contest, CW	CW	RST, serial, district (if UK/EI)	<a href="http://www.ukicc.com">www.ukicc.com</a>
24 0000	24 0400	3.5-14	North American SSB Sprint Contest	Ph	Other station's call, your call, serial, name, SPC	<a href="http://ssbsprint.com/rules">ssbsprint.com/rules</a>
24 0600	24 1000	50	UBA Spring Contest, 6 Meter	CW Ph	RS(T), serial, UBA section (if any)	<a href="http://www.uba.be/hf/contest-rules">www.uba.be/hf/contest-rules</a>
27 0000	27 0200	1.8-28	SKCC Sprint	CW	RST, SPC, name, mbr or power	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
27 2000	27 2100	3.5	UKEICC 80-Meter Contest	CW	4-char grid square	<a href="http://www.ukicc.com">www.ukicc.com</a>
28 2000	28 2130	3.5	RSGB 80-Meter Club Championship, SSB	Ph	RS, serial	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
30 0000	31 2359	1.8-28	CQ WW WPX Contest, SSB	Ph	RS, serial	<a href="http://www.cqwpw.com">www.cqwpw.com</a>

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](http://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.*

88 QST ARRL.ORG

## TREASURER'S REPORT

Respectfully submitted by John Barnes/KS4GL, Treasurer

BLUEGRASS AMATEUR RADIO SOCIETY, INC.  
INCOME, EXPENSES, AND ACCOUNT BALANCES  
as of January 31, 2019

	Checking Account	PayPal Account	Savings Account	Total
INCOME:				
ARRL Dues	0.00	0.00	0.00	0.00
BARS Dues	180.00	0.00	0.00	180.00
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	2.60	0.00	0.04	2.64
Sales Tax	0.00	0.00	0.00	0.00
Miscellaneous	0.00	0.00	0.00	0.00
Total	182.60	0.00	0.04	182.64

EXPENSES:				
ARRL Dues	0.00			0.00
Coax/Repeaters	0.00			0.00
Donations	316.00			316.00
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	0.00			0.00
Newsletter	0.00			0.00
Picnic	0.00			0.00
P O Box	0.00			0.00
Sales Tax	39.93			39.93
Telephone	0.00			0.00
Total	355.93			355.93

## ACCOUNT BALANCES

	December 31, 2018	January 31, 2019
Checking Balance*	11700.38	11527.05
PayPal Balance	3139.44	3139.44
Savings Balanc	200.86	200.90
Total Balance	15040.68	14867.39

## \* Fund-specific balances in Checking Account

General	8986.11	8812.78
Coax/Repeater	804.98	804.98
Education	1909.29	1909.29
Total Checking	11700.38	11527.05

(continued from page 4,  
Director's meeting)filed on schedule in January,  
2019.

Copies of the Current Bylaws  
were e-mailed to three new  
members: Chris Perry, KY-  
4CKP; Matt Gdowski, N4FFL;  
and John Thomas, K4QB.

**Committee Reports**

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

Education: Bill Fuqua,  
WA4LAV. One student is  
preparing for the  
Technician License exam on  
February 9th.

Emergency Preparedness:  
Sandy Gragg, KM4PJU. The  
Lexington Fayette County  
EOC is expected to have  
their Emergency Operations  
Communications Trailer at  
the Horse Park for demon-  
stration and participation in  
Winter Field Day activities.

Hamfest: David Richardson,  
W9KHZ. Ideas for this  
year's Hamfest on  
August 10th are welcome.

Newsletter: Bart Breeding,  
KB4FEE. Nothing to report

Program: David Richardson,  
W9KHZ. The tentative pro-  
gram schedule of 2019 is:  
February - CERT;  
March - NWS SkyWarn  
April - Portable Go-Kits;  
May - Antenna Theory;  
June - Field Day;

(continued on page 7)

**"Actions speak louder  
than words."**

-Abraham Lincoln (1809-1865)

( Director's meeting 1-21-19  
continued from page 6)

July - DMR (Digital Mobile  
Radio);

August - Hamfest;

September - Picnic (no formal  
meeting);

October - Bylaws Revisions,  
Nominating Committee No-

vember - Bylaws revisions,  
Nominations, Digital Modes;

December - Elections, Members'  
Auction.

Public Relations and Member  
ship: Bart Breeding , KB4FEE

1) A BARS information  
tri-fold flyer is being edited  
and will be available for  
readership.

2) The local TV stations and  
scout organizations have  
been contacted concerning  
Winter Field Day.

Repeater: Andrew Cook,  
KF4OWP. (no report).

Shack: David Richardson,  
W9KHZ.

1) The beam and off-center-  
fed dipole are not  
functioning.

2) The Shack and Shop closets  
are being rearranged for  
additional storage.

3) A USB micro-scope has  
been added in the shop

HF Liaison: David Richardson,  
W9KHZ. Nothing to report

VHF Liaison: Tim Kunkel,  
KF4MPM. (no report).

Volunteer Examinations: (Ferne  
Williams, KE4MEI). (no re-  
port)

Historian: Bill DeVore, N4DIT.

The Silent Key (SK) memorial  
plague is in progress.

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

Library: John Barnes, KS4GL.

Additional volumes of QST are  
being added to the library.

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

The MARS station is partici-  
pating in the Kentucky state  
network.

Trustee: Andrew Cook,  
KF4OWP. (no report).

Bylaws: Andrew Cook,  
KF4OWP. Secretary Bruce  
Campbell, KM4EHU,  
Reported that the revisions  
to the Bylaws are reaching  
the point that they will  
soon be ready to submit to  
the Directors' for rounds  
of preliminary approvals  
before they are presented  
to a general membership  
vote for adoption. The  
Bylaws committee meet-  
ing is open to any inter-  
ested BARS member.

### Old Business:

Antenna maintenance  
activities are postponed  
until after the holidays and  
during favorable weather.

(continued on page 10)

## 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	Topic	Presenter(s)	Comments
✓ January	"Winter Field Day" January 26-27, 2019	David Richardson/W9KHZ	
✓ February	CERT Program	Shelly Bendall LFUCG	
March	SkyWarn National Weather Service, Louisville, KY	Joe Sullivan	
April	Portable Go-Kit	David Richardson/W9KHZ	
May	Antennas	Bill Fuqua/WA4LAV	
June	"ARRL Field Day" June 22-23, 2019	David Richardson/W9KHZ	
July	DMR/DStar/Fusion(tentative)	Bluegrass DMR	
August	"Hamfest" August 10, 2019	David Richardson/W9KHZ	
September	Annual Family Picnic	Bill DeVore	Shelter#2, Shillito Park, LEX
October	Discussion of By-Laws and SOP changes		
November	Report of Nominating Committee	Additional discussion on By-Laws and SOP	
December	"Annual Auction"	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 9 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 Amteur 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 - Wednesday, 9:00 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 - 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 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.

**We are still looking for past copies of the Hamnews Letter. We have copies back to 2014. We would like to find other older copies to be put in an archive, for reference material.**

**BART KB4FEE**

"Never discourage anyone who continually makes progress, no matter how slow"

- Aristotle

## Schedule for Volunteer Examinations in 2019

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

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

### Test Session Locations

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

\* August, Bluegrass ARS Hamfest, Eastland Shopping Center, Lexington, Kentucky

\*\* September, Richmond Hamfest, Madison County Fairgrounds, Richmond, Kentucky

### Contact Information

ARRL VEC: Lexington and BARS ARRL Hamfest test sessions - Liaison **Fernie Williams/KE4MAI**, [ke4mai@arrl.net](mailto:ke4mai@arrl.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@arrl.net](mailto:wx4gps@arrl.net), 502-542-8252

WCARS VEC: Lexington - Liaison **Marguerite Williams/KE4MAJ**,

[ke4maj@arrl.net](mailto:ke4maj@arrl.net), 859-489-6274 ([www.bluegrassars.org](http://www.bluegrassars.org))

W5YI VEC: Winchester - Liaison **Darrell Epperson/AC4YD**,

[AC4YD@arrl.net](mailto:AC4YD@arrl.net), 859-771-1834

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

Date and Time	VEC	Location
Saturday, March 9, 2019	10:00 am	ARRL
Tuesday, March 19, 2019	7:00 pm	WCARS
Saturday, April 13, 2019	10:00 am	W5YI
Saturday, April 27, 2019	10:00 am	ARRL
Saturday, May 11, 2019	10:00 am	ARRL

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 859-231-0974.

March 4th, 7:00pm - KYQRP  
\*CANCELLED\*.

March 4th, 7:00pm - BARS  
General Meeting (abbreviated). Program: NWS Sky Warn.

March 18th, 6:00pm - Bylaws  
Committee Meeting

March 18th, 7:30pm -  
Directors' Meeting.

With no other business at 8:50pm, David Richardson, K9KHZ, moved, and John Barnes, KS4GL, seconded that the meeting be adjourned, which was approved without objection.

Recorded and submitted by:  
Bruce Campbell, KM4EHU  
Secretary

(1-21-19 Director's meeting  
continued from page 8)

Jodie Wells will assist with the cataloging of donated and surplus equipment for sale on E-bay.

### New Business:

None.

### Upcoming BARS Schedule:

January 26th - 27th - Winter  
Field Day, Ky Horse Park  
February 2nd, 8:00am - DMR  
(Digital Mobile Radio)  
presentation at Hamburg Sleep  
Inn, Lexington.

February 4th, 6:00pm - Bylaws  
Committee Meeting.

February 4th, 7:00pm - KYQRP.

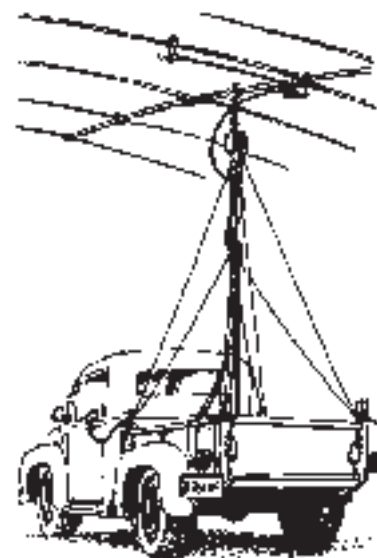
February 4th, 7:30pm - BARS  
General Meeting. Program: CERT  
- Community Emergency  
Response Team

February 18th, 6:00pm - Bylaws  
Committee Meeting.

February 18th, 7:30pm - Directors'  
Meeting.

March 2nd, Cave City Hamfest.

March 4th, 6:00pm - Bylaws  
Committee Meeting.



(continued from page 4,  
"Hamland")

The catastrophic tornado that struck Joplin, Missouri in May of 2010, necessitated the activation of the Amateur Radio Emergency Service (ARES) organization to provide crucial communications to an area in which all electricity and communications had been knocked out. The volunteers of ARES performed brilliantly, providing continuous, around-the-clock communications for several days.

In this world of highly sophisticated government and commercial communications networks, amateur radio operators still provide a valuable service to their fellow citizens, driven not by fame or fortune, but by a volunteer ethic.

"Seventy-threes" to all you hams out there. That's 'best regards' for all you non-hams out there.

### **"Adding an Inexpensive Weather Station to your Shack"**

<https://hamradioscience.com/adding-an-inexpensive-weather-station-to-your-shack/>

Most hams are interested in weather at some level or another. With today's internet services, very detailed information about the weather in your area is often just a click away. However, depending on your location you may not be able to get information that is close to you. Wouldn't it be nice to get information about what's going on in your own backyard? You can check the rainfall or the wind speeds right at your backdoor. Set alarms that will notify you that the winds are increasing and it is time to go crank down the antenna. You can

even share this information with other hams via APRS or your neighbors using such services as Weather Underground. All you have to do is add an inexpensive weather station to your shack.

What prompted this article was that the seven year old Oregon Scientific WMR100 finally bit the dust due to water leaking into the battery compartment. The WMR100 was a fairly inexpensive unit that provided pretty decent weather info for 7 years, so I couldn't complain. I decided to see what was available as a cheap replacement. My research showed most of the same players were providing inexpensive units that could send weather data to a computer. The commonly available under \$200 units that come with indoor temp and humidity, external sensors for rainfall, wind speed, wind direction, outdoor temp and humidity, and barometric pressure are still available from Ambient, Lacrosse, Oregon Scientific, and a new player Accurite. Of course if you are looking for top quality then the Davis Vue series may be the answer, but be prepared to pay about \$500 for a unit with a PC interface. Accurite sells a system that has an all in one sensor package like the Davis Vue at a fraction of the price. However, Accurite has not gained as much 3rd party software support since the system is relatively new.

The system that I finally decided to go with was the Fine Offset 1080 sold as the Dr. Tech 1080PC. This weather station is sold under several other brand names such as Ambient and Dr. Tech. These stations seem to have the

reputation of being fairly reliable and accurate for the money. Now here is the interesting part. The 1080 series of stations price can vary greatly depending on the brand name stamped on it. Some branded models go for around \$130-\$140. However some vendors sell this station under the Dr. Tech brand name for \$79 shipped (see links at the end of this article). The 1080 comes with a decent weather instrument package and a pretty good touch screen indoor display with a USB interface.

### **Dr. Tech vs the WMR100**

I thought I would do a quick comparison of my old WMR100 vs the new Dr. Tech 1080PC. It is interesting that home weather technology has not changed a whole lot over the last seven years. Both systems use wireless radios for the sensors.

**Build Quality** – This one definitely goes to the WMR100. The plastics used by the Oregon Scientific unit definitely appears to be much sturdier. The Dr. Tech instruments are very light weight and cabled together with a telephone like cable. I suspect neither instrument would not survive a major wind storm. The WMR100 also has a very compact footprint with its monitor and sensor package, making it easy to mount.

### **1080PC Display Panel**

**Display** – Dr. Tech wins here with its larger touchscreen display that shows several weather parameters at once. The WMR100 has a very compact display unit and doesn't show quite as much data at once.

(continued on page 11)

(continued from page 10, "Adding an Inexpensive Weather Station")

The touchscreen of the Dr. Tech unit makes it easier to quickly access station data such as highs, lows, records, etc.

**Accuracy** – I would have to say that the Dr. Tech is a bit more sensitive than the WMR100. The anemometer that comes with the Dr. Tech unit measures the slightest breeze where the WMR100 took about 1-2mph winds to respond. The WMR100 humidity always a read a bit higher, but that could have been due to some water intrusion over the years. The Dr. Tech unit measurements are usually very close to the local airport weather and other personal weather stations in the area.

**Battery Life** – Can't really say yet. The Dr. Tech unit only uses 5 AA batteries, where the WMR100 uses 10 AA batteries. I only had to replace the batteries twice in the WMR100 over its 7 year life span.

**Clock** – Just an interesting note. Both units have an internal clock/calendar set by a time source radio signal. The WMR100 had the clock receiver built in to the base unit and would rarely set the clock at my location. The Dr. Tech unit houses the clock radio in the outside mounted sensor which works much better.

**PC Interface** – Even. Both units have an USB interface and are supported by several 3rd party programs.

**Expandability** – The WMR100 has the upper hand here. Since you can add additional sensors such as solar and remote

temperature sensors. The Dr. Tech unit, appears to only allow it to work with the sensors provided. Overall for \$79 shipped the Dr. Tech 1080PC is hard to beat for an inexpensive weather station.

### Software

If you are interested in using a computer to log your weather data, analyze weather data, publish data to Weather Underground, APRS, or to a personal website, I would suggest you look at either Weather Display (approx. \$70) or Cumulus (Free). Weather Display is a very powerful program with lots of bells and whistles. Cumulus is a very easy to setup program that also offers a lot of nice features. Ham Radio Science is using the web publishing feature of Cumulus for the Weathertab on this site. The Ham Radio Science weather site is also using the Weather Blues custom template and the Steel Series Gauges plugin. More information on how to set these up can be found at the Cumulus Forums with a little searching. However, if you simply use the basic template provided with Cumulus on your web hosting site and have a little knowledge of FTP, it is very easy to get going. Both programs allow uploading data to Weather Underground, APRS, and other sites. Both programs are very light on computer resources. If you run your shack computer 24/7, these programs can run in the background with very little impact on your system. Also, if you have an older computer that you are not using, drag it out and use it as a weather server. Another consideration for a weather

server. Another consideration for a weather server is one of the older Atom based netbooks (in use at Ham Radio Science station), or one of the current Atom or Celeron based bare-bones computer kits. Who knows maybe someone can get a linux version weather program going on the soon to be released \$25 – \$35 Raspberry Pie computer! Links to Amazon vendors for the \$79 Dr. Tech Station

### Where's the Rare DX?

OPDX Bulletin 1403  
February 18 21, 2019  
<<http://www.papays.com/opdx1403.html>>

3W, VIETNAM (Reminder). Jean-Pierre, F6CTF, will be active as 3W9JF from two different locations in Vietnam between February 19th and April 6th. His schedule is as follows:

February 19th-March 6th --  
From Phu Quoc Island (AS-128)  
March 16th-April 6th --  
From Hoi An Activity will be on 80/40/20/17 meters using CW and SSB. QSL via EA5GL or eQSL

D4, CAPE VERDE. Operators Helmut/DF7EE, Andrea/HB-9DUR, Marco/IK2LFF, Kris/YL3JA and Ljubomir/YU5EEA will be active as D4C from Cape Verde Island during the CQWW WPX SSB Contest (March 30-31st) as Multi-Op entry. Operators HB9DUR and YU5EEA are YOTA members. QSL info: <http://d4c.cc/qsl>

(continued on page 14)

**Bluegrass Amateur Radio Society (BARS)**  
**General Meeting Minutes of February 4, 2019 Red Cross Building, Lexington, Ky**

The February 2019, BARS General Meeting was called to order at 7:36pm by President Andrew Cook, KF4OWP.

Self-introductions were made by sixteen(16) licensed members, which composed a quorum. Program: Ms. Shelly Brendall from the Lexington Emergency Management – CSEPP (Chemical Stockpile Emergency Preparedness Plan) presented an outline overview of the CERT (Community Emergency Response Team) Program and the eight(8) training sessions required for CERT certification.

**Club and Members' News.**

No members' activities were reported for this month. Treasurer's Report – John Barnes, KS4GL.

One membership application was presented for Todd Samuelson, KB4TSC, which was approved by the Board of Directors at their January meeting. James Schlessler, WA9MED, moved, and Mike Saulsbury, WB0JZO, seconded for acceptance of the membership application, which was approved by unanimous vote.

The summary treasurer's report of amounts available in bank deposits as of January 31, 2019, are:

**Checking account:**

General fund:	\$8,812.78
Coax/repeater:	804.98
Education:	1,909.29
	\$11,527.05

**PayPal account:**

3,139.44

**Savings account:**

200.90

**Total balance of accounts:**

\$14,867.39

Joe Raber, KN4ONK, moved and James Schlessler, WA9MED, seconded to accept the treasurer's report, which was approved unanimously.

**Committee Announcements.**

Contest – Pete Kragh, K2UPD: (no announcements).

Education – Bill Fuqua, WA4LAV: One current student is scheduled to take the Technician License test on Saturday.

Emergency Preparedness - Sandy Gragg, KM4PJU. Nothing to announce.

Hamfest – David Richardson, W9KHZ:

- 1) Three commercial vendors have committed to attend.
- 2) ICOM USA has been contacted about the Hamfest schedule.
- 3) A Digital Mobile Radio (DMR) presentation is being planned

Newsletter – Bart Breeding, KB4FEE: Nothing to announce.

Program – David Richardson, W9KHZ: The March program will be the National Weather Service SkyWarn Severe Weather Spotting presentation.

Public Relations and Membership – Bart Breeding, KB4FEE: Nothing to announce.

Repeater – Andrew Cook, KF4OWP: Nothing to announce.

Shack – David Richardson,

W9KHZ: A 8-ft fiberglass Step-ladder.

Volunteer Examinations – Fernie Williams, KE6MAI: (no announcements).

Historian - Bill DeVore, N4DIT: Nothing to announce.

Librarian – John Barnes, KS4GL: Nothing to announce.

MARS – Harvey Fry, AA4HF, and Barry Jackson, WB4N: (no announcements).

Trustee: Shack – Andrew Cook, KF4OWP: Nothing to announce.

VHF Repeater – Andrew Cook, KF4OWP: Nothing to announce.

Bylaws – Andrew Cook, KF4OWP: The Bylaws committee is meeting each month at 6:00pm before the General Meetings and the Directors' Meetings to revise the current Bylaws. The committee meeting is open to all BARS members for input and discussion. Special Interest Groups News.

1) Winter Field Day: approximately 17,000 points, 150 QSO's.

2) DMR Conference: July Program will be a DMR presentation Old Business.

1) Antenna maintenance will be delayed until favorable weather in the Spring.

2) The club will study the possibility of taking over the responsibility for the storage of the large amount of donated equipment until it is disposed of.

**New Business.**

1) Ten(10) new signs were made for Winter Field Day and are also usable for Summer Field Day. J.B.Young, WA4WWH, moved, and James Schlessler, WA9MED, seconded that the Club pay one-hundred dollars(\$100.00) (continued on 13)

(continued from page 12, General Meeting February 4, 2019)

as reimbursement for the purchased new signs.

2) The Club's current ARRL Technician Class License study guides are now out-dated. Bob Brown, KI4JWJ, moved, and David Richardson, W9KHZ, seconded, that up to two-hundred fifty dollars (\$250.00) be authorized for purchase new ARRL Technician Class License study guides as they are needed for education classes.

With no other business at 8:44pm, David Richardson, W9KHZ, moved, and James Schlessler, WA9MED, seconded, that the meeting be adjourned, which was approved unanimously.

The next BARS scheduled meetings and activities:

Bylaws Committee Meeting: Monday, February 18th, 6:00pm.

Directors' Meeting: Monday, February 18th, 7:30pm.

Cave City Hamfest: Saturday, March 2nd.

Bylaws Committee Meeting: Monday, March 4th, 6:00pm.

BARS General Meeting: Monday, March 4th, 7:30pm.

Program: National weather Service, Severe Weather Spotting.

Bylaws Committee Meeting: Monday, March 18th, 6:00pm.

Directors' Meeting: Monday, March 18th, 7:30pm.

Recorded and submitted by:

Bruce A. Campbell,  
KM4EHU  
Secretary

(continued from page 11,  
Rare DX)

C5, THE GAMBIA (Update). Don, G3XTT, will be in The Gambia from March 5-12th. He will mainly operate in the RSGB Commonwealth Contest over the weekend of March 9-10th. The callsign will be C56DF, and Don hopes to do some operating before and after the contest. This will be a CW only operation, low power (IC-7300 and wires) from a rooftop apartment. It is unlikely there will be space for 80 or 160m antennas, but Don hopes to use the trip to recce possible opportunities for a larger operation later in the year or early next year. He will, of course, upload logs to LoTW and ClubLog, but possibly only after his return to the UK. QSL direct to Don's home callsign or via ClubLog's OQRS.

E5, NORTH AND SOUTH COOK ISLANDS. Operators Dagmar/DM7PQ, and Rainer/DL1AUZ will be active as E51NPQ and E51AUZ, respectively, during March and April.

Activity will be from the following scheduled islands:

March 9-11th -- Rarotonga Island (OC-013), South Cook Islands

March 13-25th -- Manihiki Island (OC-014), North Cook Islands

March 27-31st -- Aitutaki Island (OC-083), South Cook Islands

April 2-11th -- Rarotonga Island (OC-013), South Cook Islands  
Activity will be holiday style on various HF bands. QSL via their home callsigns.

QSL via their home callsigns. Watch QRZ.com for possible updates.

FK, NEW CALEDONIA (Reminder). Arnaud, JG1XMV, will once again be active as FK/JG1XMV from New Caledonia between February 23rd and March 10th. He will have his friend Yves, FK4RD, again with him. His activity will be from Grand Terre Island (OC-032), but may also visit Lifou (OC-033) and Mare (OC-033) islands during his stay. Operations will be on 40/20/17/15 meters SSB. QSL via home call direct, LoTW and eQSL.

T31EU KANTON ISLAND DXPE-  
DITION NEWS. Just a reminder that the T31EU team from Kanton Island (OC-043) will be active between February 16th and March 5th. Activity will be on 160-10 meters using CW, SSB and some FT8. QSL via DL2AWG or ClubLog's OQRS. For more details and updates, see:

<http://www.kanton2019.de>

Believe in yourself. You are braver than you think, more talented than you know, and capable of more than you imagine.

- Roy T. Bennett-

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

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

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

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Annual Dues (January 1 - December 31)

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

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

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

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



## Calendar of Ham Radio Activities for March 2019



- Sat 2 Shack open 9:00-Noon; Radio Theory and Construction Workshop, 1:00-3:00 PM, Cave City Hamfest.
- Sun 3 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 4 Jessamine Cty ARES Net, 7:30 PM, 145.490 Repeater, Gary Britten W4GNB net control.
- Mon 4 **KY-QRP Discussion Group**, 7:00 PM, Meeting Room "B," Red Cross Bldg, 1450 Newtown Pike, Lexington(cancelled)
- Mon 4 By-Laws Meeting, 6:00 pm;**Bluegrass ARS Club meeting**, 7:00 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 5 Amateur Swap Net, 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern, 443.325+ MHz.
- Wed 6 Six Shooters Net, 8:00 PM on 52.525 MHz FM (vertically polarized); **Fayette County ARES Net, 9:00 PM, 146.760 repeater.**
- Thu 7 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 9 Shack open 9:00-Noon; Radio Theory and Construction Workshop, 1:00-3:00 PM, License Exam Session, 10:00 AM Georgetown - ARRL VEC, Liaison Ron Malinowski/WX4GPS, wx4gps@arri.net, 502-542-8252
- Sun 10 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 11 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 12 License exam session 7:00 PM, sponsor WCARS VEC, Lexington, liaison **Margueritte Williams/KE4MAJ**, ke4maj@arri.net, 859-489-6274 ([www.bluegrassars.org](http://www.bluegrassars.org)); Amateur Swap Net 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern, 443.325+ MHz;
- Wed 13 Six Shooters Net, 8:00 PM on 52.525 MHz FM (vertically polarized); **Fayette County ARES Net, 9:00 PM, 146.760 repeater.**
- Thu 14 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 16 Shack open 9:00-Noon; Radio Theory & Construction Workshop, 1:00-3:00 PM, basement, Red Cross Bldg, 1450 Newtown Pike; .
- Sun 17 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 18 **BARS By-Laws Meeting** 6:00 PM; **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 19 License exam session 7:00 PM, sponsor WCARS VEC, Lexington, liaison **Margueritte Williams/KE4MAJ**, [ke4maj@arri.net](mailto:ke4maj@arri.net), 859-489- 6274 ([www.bluegrassars.org](http://www.bluegrassars.org)); Amateur Swap Net 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern, 443.325+ MHz.
- Wed 20 Six Shooters Net, 8:00 PM on 52.525 MHz FM (vertically polarized); **Fayette County ARES Net, 9:00 PM, 146.760 repeater.**
- Thu 21 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 23 Shack open 9:00-Noon; Radio Theory and Construction Workshop, 1:00-3:00 PM, basement, Red Cross Bldg, 1450 Newtown Pike;
- Sun 24 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 25 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 26 Amateur Swap Net 145.370 (T-192.8) 8:00 PM; "Casual Communicators Net," 9:00 PM Eastern, 443.325+ MHz;
- Wed 27 Six Shooters Net, 8:00 PM on 52.525 MHz FM (vertically polarized); **Fayette County ARES Net, 9:00 PM, 146.760 repeater.**
- Thu 28 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 30 Shack open 9:00-Noon; Radio Theory and Construction Workshop, 1:00-3:00 PM,
- Sun 31 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