



Pray for our
Troops



God Bless America!

QUA

/HAMnews

July
2017

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Club Station K4KJQ

MARS Station AAV4CAB



Glenn E. Welman/KF4NB
Memorial BBS
145.010 and 145.090

Web Page: <http://www.bluegrassars.org>
E-mail: k4kjq@bluegrassars.org

K4KJQ
146.160/.760

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

WA4HBM
147.765/.165

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

QUICKY NOTES

Accessing the Club's web

page: <<http://www.BluegrassARS.org>>.

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

Subscribe to ListServ:

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

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

-- THE PROGRAM FOR THE JULY MEETING --

...will be presented by **James Schlessner/WA9MED**. James will be giving a program on weatherproofing cable and assemblies during the July meeting.

-- D-STAR NET --

On May 3, 2017, Ray Whitehouse <raywhitehouse@msn.com> wrote: This is a friendly reminder to check in to the Thursday night D-Star nets on Reflector056B. The nets are held every Thursday at 7:00 PM. Net Control is **Larry Jones, NN4H**. Although Reflector 056 is usually considered a Kentucky reflector, all hams are welcome. Please spread the word and invite others to join the net. 73, Ray/KI4BM

-- HARRY SPARKS/KN4S HOME SAFELY --

For those of you who may have wondered "What ever happened to **Harry Sparks/KN4S?**," we received word he was released from ICU at a local hospital this past weekend and is recovering at home. He commented "Don't pay the ransom, I escaped!" Glad to hear the good news!



"Sometimes when I'm faced with an atheist, I am tempted to invite him to the greatest gourmet dinner that one could ever serve, and when we have finished eating that magnificent dinner, to ask him if he believes there's a cook."

~ Ronald Reagan

QUA/HAMnews

July 2017

Meeting Notice

Bill DeVore/N4DIT,
Chair, Newsletter Committee
Bluegrass ARS, Lexington, Kentucky

The general meeting of the Bluegrass Amateur Radio Society, Inc., will be held Monday, July 10, 2017, the second Monday of the month due to the 4th of July holiday including the first Monday, 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 **James Schlessner/WA9MED**. James will discuss weatherproofing cable, coax, and assemblies.

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

If you have a program you would like to hear or a topic you would like to present, contact **James Schlessner/WA9MED** at (757) 478-2186 or wa9med@jschlessner.com (see the program schedule on page 2). We welcome your suggestions of how we can make a difference in the Club in 2017. ♦

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

Note that we still need volunteers to chair the Contest Committee and the Public Relations and Membership Committee. Contact **Smokey Wallace/KE6IVK** at <ke6ivk@ar1.net> or (859) 402-8208.

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

The Central Kentucky ARRL Hamfest Has Moved, Changed Date

*Hamfest Committee,
Bluegrass ARS,
Lexington, Kentucky*

The Hamfest Committee members, and Board of Directors, have located a new site for our hamfest. It will be held in the lower level of Eastland Shopping Center, Winchester Road, Lexington. The site is a bingo hall and is a lot larger than the site we have been using in Lawrenceburg, Kentucky, the past few years.

The committee/board of directors have decided to charge the same for entry tickets (advance: \$5.00 or \$6.00 at the gate), but the cost for tables will be reduced to \$10.00 in advance and \$15.00 at the gate day of the hamfest.

The date is the second weekend of August (as always), but on the Saturday rather than Sunday.

With additional numbers of tables and space, more meeting rooms, expansive parking, etc., we can accommo-

Board of Directors' Meeting

Bill DeVore/N4DIT, Chair,
Newsletter Committee
Bluegrass ARS, Lexington, Kentucky

The Board of Directors of the Bluegrass Amateur Radio Society, Inc., will meet Monday, July 17, 2017, at 7:30 PM in the Education Center, basement of the Red Cross Building, 1450 Newtown Pike, Lexington.

Board meetings offer you the members, or anyone having an interest in amateur radio or public service, a forum to present

date many more vendors. Pass the word over nets you participate in, club meetings you attend, and to people you know. The contact person is **David Richardson/W9KHZ**, (859) 983-1380, or (daveinlex3 @gmail. com). ♦

Invitation to Central Kentucky Amateur Radio Clubs

Bruce A. Campbell, KM4EHU,
Secretary,
Bluegrass ARS,
Lexington, Kentucky

The Bluegrass Amateur Radio Society will be hoisting the Central Kentucky ARRL Hamfest this year on Saturday, August 12th, in Lexington, and not in Lawrenceburg as it has been in previous years. The hamfest will be in the Jackpot Bingo Hall, lower level of Eastland Shopping Center, 1230 Eastland Drive, just inside the intersection of New Circle Road and Winchester Road. The bingo hall is on the west side of the shopping center facing Industry Road, right under the water tower.

The shopping center does not allow tailgating outside in the parking lot. Therefore, all trading and swapping and selling

June Club Meeting

Smokey Wallace/KE6IVK Gave Details/Plans for Field Day Activities

Many thanks to **Smokey Wallace/KE6IVK** for presenting the June program and thanks for all his efforts in arranging for the Field Day site with Lexington Department of Parks and Recreation, collecting all the antennas, the mobile tower, operating stations, safety measures . . . making sure all preparations were made and coordinated.

As always, his presentation helps make the Club's Field Day activity successful. And, the publicity he puts out on the Internet and elsewhere, is a big plus in getting the word out to the public.

Now lets operate! And hope Mother Nature cooperates. ♦

must be conducted inside the bingo hall. We would like to suggest to our neighboring clubs that your club consider renting table space at the hamfest in your club's name for your members to setup their equipment and gear and items they may have for sale or trade.

The hamfest announcement is posted on the ARRL website. **David Richardson, W9KHZ**, is our hamfest committee chairman. He can be contacted



by e-mail at daveinlex3@gmail.com, or by phone at 859-983-1380. He has set up an e-mail address for the hamfest which is centralkyhamfest@gmail.com. Soon we will be posting information about the hamfest on our webpage www.bluegrassars.org. Our club's e-mail address is k4kjq@bluegrassars.org. The telephone number in our K4KJQ ham radio station at the Red Cross Building in

Program Schedule for 2017

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

The following programs are scheduled for 2017. Your input and suggestions for programs for 2017 are needed. Call **James Schlessler/WA9MED** at (757) 402-8208, or e-mail to <wa9med@jschlessler.com>.

Month	Topic	Presenter(s)	Comments
✓ January	Open		
✓ February	"BOB"	David Richardson/W9KHZ	Personal Emergency Preparedness
✓ March			Severe Weather Identification and Reporting tentatively by Joe Sullivan/KC7ITG of the NWS, Louisville
✓ April		Stephen Bishop and Tim Brandewie	Lexington/Fayette Emergency Management
✓ May			Chemical Weapons Removal – Bluegrass Ordinance Depot, Madison County, Kentucky.
✓ June	"Field Day"	Smokey Wallace/KE6IVK	Site location, preparation, operating stations, etc.
July			"Weatherproofing Cables, Coax, and Assemblies" James Schlessler/WA9MED
August	Hamfest	David Richardson/W9KHZ and Fest Committee	Location, preparation, tickets, tables, work crews, etc.
September	Annual Family Picnic	Fun, Food, Conversation	Picnic Shelter #2, Shillito Park, Lexington
October	Open		
November	Open		
December	Annual Auction	J.B. Young	will serve as auctioneer to see if he can get you some cash – Bring your items

Boy Scout Merit Badge Class

Joseph "Smokey" Wallace/KE6IVK
President,
Bluegrass Amateur Radio Society
June 10, 2017

I met Club member **Martin Weaver/KM4HPK** at the shack at 8:00 AM. We got to work setting up. At 9:00 AM the Scouts of Troop 382 came down to the Club's Education Center at the Red Cross. Martin called the class to order and started his radio merit badge class. **Guy Hollander KI4TLY** helped with the technical aspects and they went till 10:30 when they took a break. The Scouts came back in and we made a contact on 20 meters before returning to the Education Center.

Once back to their seats in the classroom, they learned about how radio is used in everyday use, and how radios work. The Scouts broke for lunch at 12:30 PM.

They returned at 1:00 PM where we talked about DC and AC electricity and proper grounding, then I showed them a demonstration of how to generate an AC sine wave with an oscilloscope.

Next on the agenda was to take a short field trip outside to see the beam move and explain its operation.

Kyle Cravens W4KCX showed up with his girlfriend who had passed her Technician Class license during the test session last Tuesday evening. Kyle also passed his upgrade to Extra Class during the session,

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



Martin Weaver KM4HPK (standing) gives instruction during his Boy Scout Merit Badge Class, Saturday, June 10, 2017. Seven scouts and their troop leader attended the class.



We went back inside and Kyle talked about his studies at UK. After that Martin finished up the paperwork. He then took

6 of the 7 Scouts (one had a baseball engagement) into the Radio Shack where all six made a 10-minute QSO on two meters. All 6 made contact with **Jim Boyd KM4KGN** who was a

Boy Scout himself and ARES EC for Garrard County, Kentucky.

Thanks to all who worked to help these future amateur radio operators. ♦

Lexington at 1450 Newtown Pike, is 859-231-0974. Please contact David, W9KHZ, for detailed information concerning the arrangements inside the bingo hall.

We hope to see you there as a club, and look forward to seeing you there individually. ♦

Dale's Tales for June

Dale Williams W4EFK, Director
Great Lakes Division
ARRL Members Only Web site
<memberlist@www.arrl.org>
May 30 2017

Greetings everyone, welcome to "Dale's

Tales" for June 2017.

THIS YEAR, 2017 is the "Year of the YL," a time to acknowledge the service of the Young Ladies across the globe that are licensed radio amateurs. In the Great Lakes Division, we recognize the national YL group YLRL, the Young Ladies Radio League that has a strong following in Kentucky. Founded in 1939, the YLRL is truly an international organization and includes many recognized members from across the globe.

As a matter of fact, our Kentucky Section leadership team includes among its Public Information officers, **Jeanne Hampton K5EIB** the Commonwealth's Lt. Governor. Information about the YLRL, can be found at: www.ylrl.org.

Many Michigan YLs hold membership

in The Auto State Young Ladies (TASYLs). TASYLs were organized in 1965 as a network specifically for YLs. The aim of TASYLs is to promote fellowship and to share our mutual interest in Amateur Radio. Their *Tattler* newsletter comes out through email four times a year and is the official publication of the organization. It contains Amateur Radio and TASYL news and activities.

Ohio YLs formed the Buckeye Belles as their YL organization. The "Buckeye Burr" is a continuing publication for Ohio YLs, despite a setback in Belle membership. **Susie Scott N8CGM** continues to produce the *Buckeye Burr* regularly and asks that any interested YL contact her if she would like to be included on the e-mail list:

N8CGM@ARRL.NET.

YLS have a lot to share with each other, as well as the OM ham population. I really want to encourage our YLS to get involved with a local YL group. Most gather on the air regularly and in person with their meetings often held at the larger hamfests. It does not take a lot of time, but the camaraderie is important and well worthwhile. YLS, please consider belonging to your local YL group.

HAMVENTION®

It really happened and congratulations go out to the Dayton Amateur Radio

"Everything has beauty, but not everyone sees it."

~ Confucius

Association for the outstanding job. I think we all looked at this year's event with a lot of apprehension, but the 600 team players at DARA pulled it off very successfully. The Greene County Fairgrounds proved a well-maintained facility, with new buildings and everyone associated with the event was friendly and welcoming. Even the rain did

not seem to dampen (I had to do it) anyone's spirits. Thanks DARA for another great Hamvention.

Tom's Comments

Comments from our Vice Director **Tom Delaney W8WTD**

One of the key elements in getting and especially keeping new hams is training and involvement. It has come up many times in the meetings of the Entry Level License committee. It was a theme at Hamvention®, where it was mentioned by both **Tom Gallagher, NY2RF**, ARRL CEO, and **Rick Roderick, K5UR**,

Call for Nominations – Ernie Farmer Memorial Award

Nominations are requested for the person you feel meets or exceeds the below-listed qualities as related to amateur radio and its many diverse and varied activities. Nominations should be sent to **Smokey Wallace/KE6IVK**, President, Bluegrass ARS, Inc., PO Box 4411, Lexington, Kentucky 40544-4411 (ke6ivk@arrl.net).

The person selected from your nominations will be honored during a special award ceremony held during the ARRL Central Kentucky Hamfest, Saturday August 12, 2017. Many arrangements must be made, so do not put this off.

Rules

1. This award is to be presented during the annual hamfest.
2. The call for nominations must be published in the Bluegrass ARS

newsletter three consecutive months prior to the deadline for nominations, which is thirty (30) days prior to the hamfest. Any nominations received after that date (July 12, 2017) will not be considered.

3. Nominations must be in writing and signed, or by e-mail with submitter's name clearly shown, with specific and adequate information describing why the nominee should be considered.
4. Areas of consideration:
 - a. Involvement in public relations.
 - b. Operating excellence.
 - c. Involvement in public service.
 - d. Assistance to prospective and/or licensed amateurs.
 - e. A combination of these for the general furtherance of amateur radio.

5. The President shall appoint a committee of no less than three to consider nominations and select the winner. The committee shall select the winner within two weeks after the deadline and procure an appropriate plaque in sufficient time to permit presentation at the hamfest. Also, the committee will write a letter of commendation outlining the reasons for the award. This is to be presented along with the plaque.
6. The winner will be notified prior to the hamfest to permit acceptance of the plaque and the letter and attendance at the hamfest.
7. The name of the winner and the contents of the commendation letter will be published in the Club newsletter following the hamfest. ♦

Previous Winners of the Ernie Farmer Memorial Award

The following persons have previously been selected by their fellow Hams as possessing the characteristics listed in the Call for Nominations. You probably recognize many of the names and call signs because they are always there when needed and do not hesitate to get involved.

1979 – **Sam Humphries/WA4KKV**
 1980 – **William Alcock/W4CDA** (Danville)
 1981 – **Bill Shepherd/W4AUZ**
 1982 – **Mike Mahlbacher/WA4UQA**
 1983 – **Ed Bono/WA4ONE**, and **Harry Bradshaw/W4TPB** (SK)
 1984 – **Bill DeVore/N4DIT**
 1985 – **Ed White/KD4TQ** (SK)
 1986 – **Scott Hackney/KI4LE**
 1987 – **Nan Muth/AA4UN**, and **John Boyers/W8OM** (Plain City, OH)
 1988 – No nominations received
 1989 – **Bill Woodward/KC4CHF** (SK), and **Jim Odom/WA4GHQ** (now AC4FP, SK)
 1990 – **John Thernes/WM4T** (Covington)
 1991 – **John Crutcher/KC4DUU**

1992 – **Bobby Rolph/KB4QNR**
 1993 – **Ralph Herndon/KN4DF**
 1994 – **Johnie Watson/KC4JNR** (now NA4J) (SK Feb 2013)
 1995 – **Paul Mitchell/N4DUE**
 1996 – **Bill Fuqua/KO4WW** (now WA4LAV) and **Jim Muth/N4CGQ**
 1997 – **Steve McCallum/K4URX** (W2ZBY) (SK)
 1998 – **Harry Sparks/KN4S**
 1999 – None awarded
 2000 – **Ron Ritchie/KF4MOM**
 2001 – **Ron Dodson/KA4MAP** (Webster, Kentucky)
 – **James Craig McKechnie/KE4FFQ**
 2002 – **Lou Berry/AG4LB**, and

Pat Spencer/KD4PWL
 2003 – **John Bell/K4RBH** (Honorary Presentation, SK), **Fernie Williams/KE4MAI** and **Jerry B. Young/WA4WWH**
 2004 – **Tom Mansfield/KG4TND**
 2005 – **Darryl Bennett/KD4CSW**
 2006 – **Greg Cross/WA8FJK**
 2007 – **Margueritte Williams/KE4MAJ**
 2008 – **Jeanie Dalton-Pugh/KB8QLC**
 2009 – No nominations received
 2010 – No nominations received
 2011 – **Brad James/WA4HBM**
 2012 – **Pete Clough/WD4GPO**
 2013 – **Pat Hayden/AI4W**
 2014 – **Glenn A. Dawson/AK4HA**
 2015 – No nominations received
 2016 – **Joseph Wallace/KE6IVK**

ARRL President. If ham radio is to survive, we need to attract new members, and just as important, we need to help them get on the air.

With Field Day coming up, we have a great opportunity to do just that throughout the Division. Clubs are already starting to make plans. I'd like to encourage not just the planning of where to put antennas and how many stations to operate, but also plans to reach out to new hams and inactive ones. It's great to have

a big score and be the top in your class, but it might be more important, in the long run, to count how many hams participated at your local event, and how many new or inactive hams learned something and took a new interest in operating.

If your club has sponsored classes and exams in the past year, have you thought about personally inviting each of your graduates to Field Day?

And even if you haven't held classes, there are ways to search the databases and

Andy Rooney wrote that . . .
"Don't rule out working with your hands. It does not preclude using your head."

— Andy Rooney

get the contact information for every ham in your area. What would it take to drop an invitation in the mail? How many less-active hams could you encourage to show up?

There are all sorts of ways to build interest. Demonstrating the art of antenna building and placement will show newcomers that antenna work is not beyond them. In fact, wire antennas work well, and can be constructed easily and designed for almost any property. One group I know has even offered to teach soldering and basic connections during the Field Day prep time.

Don't overlook an important Field Day rule, designed specifically with newcomers in mind. That is the Get On the Air (GOTA) station. Look over that section carefully. Your club can add to its total contacts by having such a station. Even new techs qualify. There are ways to use control operators and call sign arrangements that allow a GOTA station to participate fully in Field Day.

You can also add a station without changing your class if that station is dedicated to 50 MHz and higher. Should we happen to get a nice six-meter opening, you can rack up lots of contacts and points just by putting that sort of station in your operating plans. It gives you an extra station to operate, so there won't be a shortage of stations for all those new operators you plan to get out there!

And youth count! Your club can get bonus points for contacts made by young people under the age of 18. There are lots of other bonus points available. One in particular your club may wish to use is Social Media.

You could attract attention (see getting new hams involved, above) and get bonus points while doing it.

In this case, reading the rules is less a matter of following regulations, and more of a matter of finding new ways operate at Field Day. Use your imagination for what you can accomplish. And have fun!

73, Tom W8WTD

Vice Director, Great Lakes Division

Great Lakes HAMCON

Many hams in the Midwest are already familiar with this fall's plan for the ARRL Great Lakes Division Convention. October

Schedule for Volunteer Examinations in 2017

Harry Sparks/KN4S,
Bluegrass Volunteer Examiners,
 kn4s@kn4s.com

The exam schedule for 2017 follows nearly the same format as past years. The scheduling is for Lexington/Fayette County and the sessions in Danville, Georgetown, Winchester, and Richmond hamfest. The Bluegrass Amateur Radio Society-sponsored ARRL exams will continue to be held on the second Saturday of the second month of each quarter (except the August Session will be the date of the Central Kentucky ARRL Hamfest in Lexington), and the WCARS sessions remain as they were last year, Tuesday evenings quarterly.

Test Session Locations

Lexington*	Winchester**	Danville	Georgetown
Red Cross Building 1450 Newtown Pike Lexington KY 40509	Clark County EOC 200 Maryland Ave Winchester KY 40391	Danville Red Cross 3rd St Methodist Church S. 3rd Street Danville KY 40442	Georgetown Police Dept 550 Bourbon Street Georgetown KY 40324

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

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

Contact Information

ARRL VEC: Lexington and BARS ARRL Hamfest test sessions – Liaison **Fernie Williams/KE4MAI**, ke4mai@arrl.net, 859-652-3393
 (www.bluegrassars.org)

Danville – Liaison **John Wulf/K4FT**, k4ft@bellsouth.net, 563-505-0339, Wilderness Road Amateur Radio Club

Georgetown – Liaison **Ron Malinowski/WX4GPS**, wx4gps@arrl.net, 502-542-8252

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

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

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

Date and Time	VEC	Location
Saturday, July 8 , 2017	10:00 AM	W5YI Winchester
Saturday, July 22 , 2017	10:00 AM	ARRL Danville
Saturday August 12 2017	11:00 AM	ARRL BARS Hamfest
Saturday, September 9 , 2017	10:00 AM	ARRL Georgetown
Saturday, September 16 , 2017	12:30 PM	W5YI **Richmond
Tuesday, September 19 , 2017	07:00 PM	WCARS Lexington
Saturday, October 14 , 2017	10:00 AM	W5YI Winchester
Saturday, October 28 , 2017	10:00 AM	ARRL Danville
Thursday, November 2 , 2017	06:30 PM	ARRL Georgetown
Saturday, November 11 , 2017	10:00 AM	ARRL Lexington
Saturday, December 9 , 2017	10:00 AM	ARRL Georgetown
Tuesday, December 12 , 2017	07:00 PM	WCARS Lexington

7 & 8 will bring the new Great Lakes HamCon and our Convention to Michigan International Speedway (MIS) for the two-day event. HamCon is sponsored by the Great Lakes Amateur Radio Association, a consortium of 18 radio clubs, formally recognized by ARRL as a "Council of Clubs" and organized as a 501(c)(3) nonprofit.

As we get closer to the fall, your Section Manager's bulletins will carry more complete information, as well as what appears in Dale's Tales.

HamCon Tickets are now on sale along with camping reservations. Check the web pages at <http://glhamcon.org/>.

Hamfesting

We have approximately 65 ARRL hamfests each year in the Division. I do encourage each Hamfest Chair to register early for ARRL Sanctioning. Be sure to invite your ARRL Officials as soon as your date is set.

In Kentucky you may be interested in attending the Big Sandy Hamfest in Louisa, July 22.

Be sure to check your Section's news pages for the latest local happenings, club and net information. ♦

ASUS Moves Its Tinker Board Into Raspberry Pi's SBC Domain

by **Donald Krambeck**
Registered member of
AllAboutCircuits.com

ASUS, the Taiwanese hardware and electronics company known for their desktops, laptops, monitors, graphics cards, and more has decided they're going to delve into the micro-PC market.

Raspberry Pi has been the most publicly prominent player in the SBC (single-board computer) market. But as the Raspberry Pi Foundation sets its sights on new goals, is it giving up some space to new competitors?

Raspberry Pi's Shift towards Software

Raspberry Pi changed the world back in 2012 when they released their first generation of credit-card-sized SBCs. The company knew they hit something huge when they sold over 100,000 units within the first 24 hours of being released.

The focus of the board was to promote the basics of computer science in schools to get children interested in computing. Five years later, Raspberry Pi has sold

*"Seek first to understand,
then to be understood."*

~ **Stephen R. Covey**

more than 10 million units of their five different microcomputers. Just recently, the Raspberry Pi Foundation released the Raspberry Pi Zero W (which includes on-board wireless capabilities). In an interview with *Wired*, Raspberry Pi Foundation founder **Eben Upton** has made it clear that he plans on focusing on the development of the software that the Pi devices can be run on. Essentially, Upton is gearing towards software as it's what he assumes a majority of users want.

In late September of 2016, Raspberry Pi introduced a brand new desktop for their devices named PIXEL (which stands for 'Pi Improved Xwindow Environment, Lightweight'). This is a huge software update to the Pi's desktop environment. PIXEL includes a refined interface, as well as quite a few new programs and features. Oh, did I forget to mention that there are experimental versions of PIXEL for x86 platforms?

But as the Raspberry Pi Foundation perfects its other products and moves in new directions, ASUS is looking to edge into the Raspberry Pi 3's territory.

Room for ASUS to Rise?

ASUS has now stepped into the SBC realm. ASUS's competitor to the Raspberry Pi is called the Tinker Board. For starters, it has a quad-core Rockchip System on Chip (SoC) that's 50% faster than the Broadcom SoC in the Raspberry Pi. It measures at the same 3.4" x 2.1" size as the Pi 3, but it also supports 4K via the HDMI 2.0 port.

Notably, however, these advantages come at a higher price: \$60 compared to the \$40 Raspberry Pi 3.

This isn't ASUS's first step in small personal computers. The VivoPC is a mini PC that measures slightly larger than a DVD jewel case. Powered by Intel with 4K/2K visuals, integrated speakers, and 802.11ac Wi-Fi, it has all the functionalities of a traditional desktop, but is much more versatile. The VivoPC shows that ASUS is experimenting on multiple fronts when it comes to computing hardware.

ASUS isn't going to release its hold on the markets it's known for, but it also seems to be expanding its purview towards who they clearly think of as "tinkerers".

Expanding Markets

With the Tinker Board, ASUS might be

trying to get a piece of the Maker Movement, which is comprised of inventors, designers, and tinkerers that are all working on the latest hardware to advance technology. This movement, according to *USA Today*, is a \$29 billion community as of 2014.

At maker faires (events focused on usually DIY robotics, crafts, gadgets, contraptions, and even legos) this year, ASUS provided their Labs DIY, where they shared their knowledge and expertise for people of all ages to create a PC. With exposing their name and providing great experiences for consumers, ASUS is slowly making a name for themselves in the vast Makers Market.

So how will this new interest in the maker community affect professional engineers? We've seen that hardware designed for tinkerers can actually be very useful to practicing designers, especially in prototyping. Perhaps this shift is one of the best industry moves EEs could ask for. ♦

IBM Up Against Moore's Law with 5nm Chip

by **Chantelle Dubois**
"All About Circuits,"
Weekly Update
June 16, 2017

Moore's Law will be relevant for a few more years with recent news that IBM, GlobalFoundries, and Samsung succeeded in fitting 30 billion transistors onto a single, 5nm chip.

With concerns that the trend Moore's Law predicted, which states that the number of transistors fitted on a single chip would double every two years, was slowing down or becoming obsolete, research into High Performance and Parallel Computing has begun to gain traction as one of the solutions for ensuring that computation power continues to expand, while decreasing power and resource requirements.

IBM managed this feat by using a new type of gate: the Gate All Around Field-Effect Transistor (GAAFET). This is similar to transistors found in 7nm chips, which are Fin Field-Effect Transistors (FINFET). Both are "3-dimensional," extending a fin upward to allow for more silicon, but in the case of GAAFET, there are three nanosheet layers of silicon.

Manufacturing chips this small is a complicated task. However, by using ultra-violet laser etching the process becomes more precise and manageable, which is part of the breakthrough allowing IBM to create 5nm chips.

Currently, 10nm is the smallest chip available on the market, with smartphones typically utilizing 14nm Qualcomm chips. The 5nm chip is promised to be significantly faster and power efficient (up to 40 and 75 percent more efficient, respectively) compared to its 10nm predecessor; IBM believes days could be added to the battery life of phones.

There has been speculation that the GAAFET could be scaled down to as small as 3nm. However, the more a chip is scaled down, the higher the potential for problems with physical limitations of transistors that small, including added complexity in manufacturing.

10nm and 14nm Production and Performance

Talking about 3nm chips may be getting ahead of ourselves, since 7nm chips have yet to enter the market, and 10nm chips have just begun to appear.

Samsung only started manufacturing 10nm chips last October, which were reported to have a 27 percent increase in performance and a 40 percent increase in power efficiency compared to 14nm chips.

Coffee Lake, Intel's codename for its 8th-generation Core processors, is the successor of the Kaby Lake 14nm microarchitecture. Reportedly, it refines the manufacturing process with up to a

"I am not young enough to know everything."

~ Oscar Wilde

30% increase in performance compared to Kaby Lake. The recently announced Intel i9 chip will also utilize a 14nm chip.

However, Intel claims that chip size is not the best way to describe the actual improvements of a chip's density and that Samsung's 10nm chips are still equivalent to Intel's 14nm chip before its refinement. An alternative method of addressing performance involves the use of a formula which focuses on standard logic cell density and weighted based on typical chip design. ♦

Federal Register Publishes New MF/LF Rules – Bands Still Not Legal

*"The ARRL Letter,"
June 15, 2017*

The FCC Report and Order (R&O) spelling out operational rules to allow secondary Amateur Radio access to 630 meters and 2,200 meters now has appeared in the *Federal Register*, but radio

amateurs still may not access the new bands. That's because specific procedures now under development, to detail how radio amateurs will notify the Utilities Technology Council (UTC) of their proposed station location prior to commencing operation, still must undergo approval. The FCC said the notification requirement is necessary to confirm that a station is not located within one kilometer of an active power line communication (PLC) system.

"While the R&O has been published in the *Federal Register*, amateurs may not begin using the new bands until after the FCC's Wireless Telecommunications Bureau issues a Public Notice outlining necessary procedures to notify UTC of pending operation, as the new rules require," ARRL Regulatory Information Manager **Dan Henderson, N1ND**, said. "There is no timetable for that Public Notice to be released. Amateurs need to practice patience."

The FCC said the notification requirements it adopted "seek to strike a balance between amateur operations used for experimental purposes and PLC operation used by electric utilities for the reliability and security of electric service to the public." Once notification procedures are in place, radio amateurs intending to operate on either band will notify UTC of their geographical location. If UTC does not object within 30 days, amateur operation may commence. ♦



It's the Rule

FCC to Require "Felony" Question on NCVEC 605

*Discussion in "Amateur Radio News"
started by William J Neill/NE1LL,
Tuesday, June 27, 2017*

This is what the FCC sent to the VECs earlier today.

There is no immediate action required by anyone at this time,

We are providing notification that the form 605 will be changing on approximately August 3, 2017. The Commission is adding a basic qualifications section to the form which includes a question regarding whether an applicant has been convicted of a felony in any state or federal court. Applicants, answering yes must provide an explanation. This item enables the FCC to determine whether an Applicant is eligible under §§ 310(d) and 308(b) of the Communications Act of 1934, as

amended, to hold or have ownership interest in a station license. This change makes the 605 consistent with other Commission licensing forms.

VEC Batch File Update:

There will be an additional field position 37 (Felony Question) added to the end of the existing file making the overall file length 37 fields.

For all NE, AM, MD and RM a Y or N will be required in this position.

If the answer is Y, a Y in position 25 is required.

Applicants responding yes to felony question must provide an explanation, which they can submit via e-mail to

attach605@fcc.gov or via postal mail at: 1270 Fairfield Rd. Gettysburg, PA 17325-7245.

The applicant may request that the explanation be treated as confidential. In order to seek confidential treatment, the applicant must include a separate request that the material not be made available for public inspection. The request must contain a statement of the reasons for the request, and identify the portion(s) of the response for which confidential treatment is requested. It is not sufficient to simply mark a document as "Confidential." If the applicant does not request confidential treatment, the response will be publicly viewable in ULS.

Where's the Rare DX?

"OPDX Bulletin 1319"

June 19, 2017

<<http://www.papays.com/opdx1319.html>>

BRAC ISLAND (9A) (EU-016) – Eddy/DM5JBN will sign 9A/DM5JBN from Brac Island Jul 4-9 with CW and RTTY. QSL via his home CBA, direct, by the Buro, LoTW, or eQSL.

CAJU ARCHIPELAGO (ZY) (SA-072) (DIB MA-03, WW Loc. GI97BF) – A group will sign ZY8D Jul 28-31 on various HF bands during the RSGB IOTA Contest (Jul 29-30). QSL via PS8RV, direct or by the Buro.

CHINA (B9) – A group will sign B9HQ from Xi'an City, Shaanxi Province (ITU Zone 43), during the 2017 IARU HF World Championship (Jul 8-9). QSL via BA4EG.

CRETE (SV9) – Ron/WB2GAI will sign SV9/WB2GAI/P from Crete (EU-015) Jul 2-Sep 29. USA stations QSL to his CBA. LogBook of the World is not used.

DEM REP OF THE CONGO (9Q) – Fernando/EA4BB will sign 9Q6BB for 3 years on HF (80-10m), mainly SSB. QSL via W3HNK.

DJIBOUTI (J28) – Jean-Philippe/F1TMY will sign J28PJ for at least 3 years on 160-6m. QSL via F1TMY.

EL NINDO, PALAWAN ISLAND (4G) (OC-128) – Gil/4F2KWT will sign 4G1L July 7-9 on 30 and 20m using CW and RTTY. QSL via his home CBA.

FRENCH POLYNESIA (FO) – Jean-Pierre/F6CTF will sign FO/F6CTF from Taravao, Tahiti, and FO/F6CTF/MM til Sep on 40/20/17/15m. QSL via his home CBA direct or eQSL.

GAVDOS ISLAND (SX) (EU-187) (Update) – A group will sign SX9VK from the southern-most part of Europe, Jul 1-9 on various HF bands plus 6m using CW, SSB and RTTY. QSL via SV1JG, direct, by the Buro, Club-Log's OQRS or LoTW.

HONG KONG (VR2Ø) (Special Event) – The Hong Kong Radio Sports Association (HRSA) members will sign VR2Ø from Jul 1, 2017-Jun 30, 2018, to commemorate the 20th anniversary of the Hong Kong Special Administrative Region of the People's Republic of China. <https://www.itu.int/dms_pub/itu-t/opb/sp/T-SP-OB.1116-2017-OAS-PDF-E.pdf>.

HOOGE ISLAND (EU-042) (WWFF DLFF-013 Wadden Sea) – Mike/DG5LAC will sign DG5LAC/P during the RSGB IOTA Contest (Jul 29-30). QSL via

Upcoming Contests

Sean Kutzko/KX9X,

QST, <<http://www.arrl.org/contest-calendar>>, scroll down, click on "Contest Corral"

- Jul 1 FISTS Summer Slow Speed Sprint, 80-10m, CW, www.fistsna.org/operating.html#sprints
- Jul 1 RAC Canada Day Contest, 160-2m, CW/Phn, www.wp.rac.ca/canada-day-contest-rules
- Jul 1 Venezuelan Independence Day Contest, 160-10m, CW/Digi/Phn, www.yv5rcv.org/reglasindep.aspx
- Jul 1-2 DL-DX RTTY Contest, 80-10m, Digi, www.drcg.de/dldxrtty
- Jul 1-2 Marconi Memorial HF Contest, 160-10m, CW, www.arifano.it/contest_marconi.html
- Jul 1-2 Original QRP Contest, 80-20m, CW, www.qrpcc.de/contestrules
- Jul 1-2 PODXS 070 Club 40-Meter Firecracker Sprint, Digi, www.podxs070.com
- Jul 2 DARC 10-Meter Digital Contest, Digi, www.darc.de
- Jul 3 RSGB 80-Meter Club Championship, CW, www.rsgbcc.org/hf
- Jul 3-9 10-10 Intl Spirit of 76 QSO Party, 10m, CW/Digi/Phn, www.ten-ten.org
- Jul 3-9 QRP Quarterly Marathon, All Bands, CW/Digi/Phn, www.arimontebelluna.it
- Jul 4 ARS Spartan Sprint, 80-10m, CW, www.arsqr.blogspot.com
- Jul 6 NRAU 10-Meter Activity Contest, CW/Digi/Phn, www.nrau.net/activity-contests
- Jul 8 FISTS Summer Unlimited Sprint, 80-10m, CW, www.fistsna.org/operating.html#sprints
- Jul 8-9 IARU HF World Championship, 160-10m, CW/Phn, www.arrl.org/iaru-hf-championship
- Jul 8-9 SKCC Weekend Sprintathon, 160-6m, CW, www.skccgroup.com
- Jul 9 CQC Great Colorado Gold Rush, 20m, CW, www.coloradoqrpclub.org
- Jul 9 QRP ARCI Summer Homebrew Sprint, 160-10m, CW, www.qrparci.org/contests
- Jul 12 RSGB 80 Meter-Club Championship, SSB www.rsgbcc.org/hf
- Jul 15 Russian Radio Team Championship, 40-10m, CW/Phn, www.news.srr.ru
- Jul 15 Trans-Tasman Low-Bands Challenge, 160-40m, CW/Digi/Phn, www.vkcc.com
- Jul 15 Feld Hell Sprint, 160-10m, Digi, www.sites.google.com/site/feldhellclub
- Jul 15-16 DMC RTTY Contest, 80-10m, Digi, www.digital-modes-club.org
- Jul 15-16 North American QSO Party, 80-10m, RTTY, www.ncjweb.com
- Jul 15-16 CQ Worldwide VHF Contest, 6/2m, CW/Digi/Phn, www.cqww-vhf.com
- Jul 16 RSGB Low Power Contest, 80-20m, CW, www.rsgbcc.org/hf
- Jul 17 Run for the Bacon QRP Contest, 160-10m, CW, www.qrpcontest.com/pigrun
- Jul 20 NAQCC CW Sprint, 80-20m, CW, www.naqcc.info
- Jul 22 SA Sprint Contest, 40/20m, CW/Phn, www.sa-sprint.com/rules
- Jul 26 SKCC Sprint, 160-10m, CW, www.skccgroup.com
- Jul 27 RSGB 80-Meter Club Championship, Digi, www.rsgbcc.org/hf
- Jul 29 Feld Hell Sprint, 160-6m, Digi, www.sites.google.com/site/feldhellclub
- Jul 29-30 RSGB IOTA Contest, 80-10m, CW/Phn, www.rsgbcc.org/hf
- Jul 30 ARS Flight of the Bumblebees, 40-10m, CW, www.arsqr.blogspot.com

DG5LAC, direct, by the Buro, ClubLog's OQRS, LoTW, or eQSL.

INDIAN OCEAN 6M EME DXPEDITIONS (West Is/Cocos Is) – Listen for Lance/W7GJ signing VK9CGJ Sep 12-28, and Christmas Island as VK9XGJ Oct 2-18) on 6m EME QSOs. <<http://www.bigskyspaces.com/w7gj/Indian%20Ocean%202017.htm>>.

ISLE OF JURA (GM4) (EU008) – Iain/G4SGX will sign GM4U/p from the Isle of Jura Jul 28-Aug 1. QSL via his home CBA.

LEONT'YEVA ISLAND (AS-022) – A group will sign RIØLI from the Medvezhya (Bear) Islands group in the E Siberian Sea

during the third week of Jul on various HF bands. <<http://www.ri0li.com>>

MALDIVES (8Q) – Phil/G4PWO will sign 8Q7PW from Fonimagoodhoo Is, Baa Atoll (AS-013), starting July 18 on 40/20/17/15m – SSB if conditions are good, Digital modes if conditions are bad. QSL via ClubLog. Look for updates on QRZ.com.

MINAMI TORISHIMA (JD1) – Take/JG8NQJ will sign JG8NQJ/JD1 from Marcus Is in the Minami Torishima (OC-073, JCG 10007) group til mid-Jul mainly on 17m but also on 20/15/12/10/6m using CW and RTTY. QSL via JA8CJY or by the Buro via JG8NQJ.

OCRACOKE ISLAND (W) (NA-067) (USI NC001S) – Jon/WB8YJF will sign WB8YJF/4 Jul 16-23 on 80-10m using CW and SSB. QSL direct for a fast QSL or via the Buro.

SOUTH COOK ISLANDS (E5) – Alex/F4GHS will sign E51GHS from two of the South Cook Islands during August: August 7-16 -- Aitutaki Island (OC-083); August 16-25 -- Rarotonga Island (OC-013). He will operate on various HF bands. QSL via his home CBA.

SYLT ISLAND (EU-042) – Eddy/DM5JBN will sign DM5JBN/P Jul 27-29, including the RSGB IOTA Contest (Jul 29-30). QSL via his home CBA, direct, by the Buro, LoTW, or eQSL.

USEDOM ISLAND (EU-129) – Lutz/DL5KVV will sign DL5KVV/p during the ESGB IOTA Contest (Jul 29-30). QSL via DL5KVV.

VIERGE ISLAND (TM5) (EU-105) – Ops Christophe/F4ELI, Andy/F4ELK, and Didier/F6DXE will sign TM5VI during the

RSGB IOTA Contest (Jul 29-30). QSL info was not provided.

VIETNAM (3W) – Megumu/JA6QGF is now signing 3W9A from Ho Chi Minh City. Activity has been on 17 and 6m SSB. QSL via his home CBA.

CUBA (T45) – A group will sign T45FM from Faro Puta Maya Lighthouse (ILLW CU-005) during the Intl Lighthouse Lightship Weekend (ILLW) Aug 19-20 on all bands using CW, Digi, and SSB. QSL to RW6HS direct only. ♦

Meeting Schedules for Area Clubs, Exam Sessions, etc.

Bill DeVore/N4DIT

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

The **Bluegrass Amateur Radio Society, Inc.** (Lexington) – (**Fernie Williams/KE4MAI** (ARRL – \$15.00) and **Margie Williams/KE4MAJ** (WCARS – \$10.00)), with **Darrell/AC4YD** in Winchester and Richmond (W5YI), **John/K4FT** in Danville (ARRL), and **Ron/WX4GPS** in Georgetown (ARRL – \$15.00), have a schedule to offer an exam monthly in Lexington/central Kentucky. (See schedules on page 5 of this newsletter). ARRL-sponsored tests are held the second Saturday of the month, 10:00 AM in the Red Cross Building, Meeting Room “B”, 1450 Newtown Pike, Lexington (except the August session is the Saturday of the second weekend of the month and is held at the site of the Central Kentucky ARRL Hamfest), and WCARS-sponsored sessions are held the third Tuesday of the scheduled month, 7:00 PM in Meeting Room “A” in the Red Cross Building, 1450 Newtown Pike, Lexington. Contact **Margie/KE4MAJ** at 859-489-6274 or email to ke4maj@arrl.net. Go to <<http://www.lexkywcars.org>> for information.

Winchester (W5YI VEC) – Test sessions are the second Saturday of January, April, July, and October at 10:00 AM. They are located in the Clark County EOC, 200 Maryland Avenue, Winchester, Kentucky. Their 2017 schedule: Saturday, January, 9, Saturday, April 9, Saturday, July 9, and Saturday, October 8. Contact Liaison **Darrell Epperson/AC4YD**, eppersond@aol.com, 859-771-1834

Danville (ARRL VEC) – Test sessions are fourth Saturday in January, April, July and October at 10:00 AM. Liaison **John Wulf/K4FT**, 563-505-0339, Wilderness Road Amateur Radio Club, Red Cross Building, 454 South Third Street, Danville.

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 5 of this newsletter).

Radio Theory and Construction Workshop – Each Saturday 1:00-3:00 PM in the Bluegrass ARS Education Center, basement of the Red Cross Building, 1450 Newtown Pike, Lexington. Contact **Bill Fuqua/WA4LAV** at (859) 272-9523 or wa4lav@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. 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, 147.120 (Tone 141.3) repeater.

Amateur Television and Specialized Communications Net – An informal meeting is held every Sunday evening at 9:00 PM (local time) on the 146.760 (-600 offset) repeater in Lexington.

Kentucky Six-Shooters Net – Wednesday evenings at 8:00 PM six meters FM on 52.525 MHz (vertically polarized). **David Jordan/KI4AWZ** net control; and, Daily Six-Meter FM Ragchew net 7:00-9:00 PM on 52.525 MHz (vertically polarized). **James Peel/KG4VAR** net control.

KY-QRP – Contact **Chris Gay/KU4A**, ku4a@arrl.net. 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.

Pioneer ARC (Winchester) – Fourth Tuesday each month, Golden Corral Restaurant at 7:00 PM (eat at 6:00), except March 24 will meet at City Hall (SkyWarn). Talk-in and info on the 145.430 (T-103.5) repeater.

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

The Jessamine County ARES Net, Tuesdays at 7:30 PM, 145.490. . . Byron Smith, Sr./KA3WOD EC, byronlxx@aol.com.

The Madison County ARES Net meets 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.

Please send any changes or corrections to these notices, or notices not listed here, to my attention, **Bill DeVore/N4DIT**, in care of Bluegrass Amateur Radio Society, Inc., PO Box 4411, Lexington, KY 40544-4411, or e-mail to billdit@twc.com.

Minutes of the General Meeting of the Bluegrass Amateur Radio Society, Inc., June 5, 2017*

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

The June BARS general meeting was called to order by President **Smokey Wallace, KE6IVK**, at 7:30pm.

Self-introductions were made by sixteen(16) member licensed amateur radio operators plus one non-licensed visitor in attendance.

BARS members not feeling at their best this month are **Ted Mullins, WB4ELR**; **Wilson Wells, N4ZQT**; and **Greg Cross, W8FJK**.

Members birthdays in June are **Smokey Wallace, KE6IVK**, and **J.B. Young, WA4WWH**.

Treasurer **John Barnes, KS4GL**, reported that no new membership applications were received for consideration during this month's June meeting.

Treasurer **John Barnes, KS4GL**, submitted the summary treasurer's report of amounts available in deposits as of May 31, 2017 (see Treasurer's Financial Summary in table at the right).

The treasurer's report was approved by general consensus.

Secretary **Bruce Campbell, KM4EHU**, reported that the paperwork for BARS ARRL club re-affiliation is in progress.

No Old Business was discussed.

New Business

I. BARS Field Day will be held at Veterans' Park, Shelter #3 June 24th and 25th.

II. **Darryl Bennett, KD4CSW**, announced that volunteers with 2-meter FM portable or handheld rigs are needed for the Bluegrass 10k foot race on the morning of July 4. Ham operators should meet at the Shriners' Hospital on Shriner's Lane at Richmond Road at 6:00am.

III. President **Smokey Wallace, KE6IVK**, asked for a volunteer with an extra class license for the Contest Committee Chair.

IV. **J.B. Young, WA4WWH**, moved, and **Blaine Early, KM4ZFQ**, seconded, that current and ongoing discussion and debate of Bylaws be postponed and considered in executive session during the directors' meeting. The motion was approved by general consensus.

V. The July general meeting will be held on July 10th due to the regular scheduled July 3rd meeting falling on Independence Day extended holiday weekend.

TREASURER'S FINANCIAL SUMMARY

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

BLUEGRASS AMATEUR RADIO SOCIETY, INC. INCOME, EXPENSES, AND ACCOUNT BALANCES

May 31, 2017

	Checking Account	Pay Pal Account	Savings Account	Total
Income:				
ARRL Dues	0.00	0.00	0.00	0.00
BARS Dues	0.00	0.00	0.00	0.00
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	1.15	0.00	0.02	1.17
Miscellaneous	0.00	0.00	0.00	0.00
Total	1.15	0.00	0.02	1.17

Expenses:		
ARRL Dues	0.00	0.00
Coax/Repeaters	0.00	0.00
Donations	0.00	0.00
Education	0.00	0.00
Election	0.00	0.00
Equipment	0.00	0.00
Field Day	0.00	0.00
Hamfest	0.00	0.00
Insurance	0.00	0.00
Miscellaneous	198.19	198.19
Newsletter	0.00	0.00
Picnic	0.00	0.00
P.O.Box/Postage	0.00	0.00
Subscriptions	0.00	0.00
Telephone	0.00	0.00
Total	198.19	198.19

Account Balances

	April 30, 2017	May 31, 2017
Checking*	\$13149.71	\$12953.79
Pay Pal Balance	\$ 2506.64	\$ 2506.64
Savings Balance	\$ 200.30	\$ 200.32
Total Balance	\$15857.77	\$15660.75

*Fund Specific Balances (Checking)

General	\$ 9990.89	\$ 9793.85
Coax/Repeater	\$ 1164.64	\$ 1164.64
Education	\$ 1995.30	\$ 1995.30
Total	\$13150.83	\$12953.79

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

The next formal BARS scheduled meetings in July and August are:

Directors' Meeting: Monday, June 19th, at 7:30pm, in the Education Center, basement of the Red Cross Building.

KY-QRP Meeting: Monday, July 10th, at 7:00pm, in the meeting room "B" of the Red Cross Building.

General Meeting: Monday, July 10th, at 7:30pm, in meeting room "B" of the Red Cross Building.

Program: "Weatherproofing Coax Connectors," by **James Schlessler, WA9MED.**

Directors' Meeting: Monday, July 17th, at 7:30pm, in the Education Center, basement of the Red Cross Building.

KY-QRP Meeting: Monday, August 7th, at 7:00pm, in meeting room "B" of the Red Cross Building.

General Meeting: Monday, August 7th, at 7:30pm, in meeting room "B" of the Red Cross Building.

Program: Hamfest, by **David Richardson, W9KHZ.**

Hamfest: Saturday, August 12th, at Eastland Mall Bingo Hall.

Directors' Meeting: Monday, August 21st, at 7:30pm, in the Education Center, basement of the Red Cross Bldg.

With no other business at 8:19pm, **J.B. Young, WA4WWH**, moved, and **Bill DeVore, N4DIT**, seconded that the meeting be adjourned, which was approved unanimously.

Minutes of the Board of Directors Meeting, June 19, 2017

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

Pending

Looking Back. . . From QUA/HAMnews. . . July 2006, page 5, and August 2006, page 6



Field Day 2006

Bill DeVore/N4DIT

The Bluegrass Amateur Radio Society set up in the front yard of the Red Cross on Newtown Pike, in Lexington. We operated using call sign K4KJQ, and our exchange was 3A KY. We had between 20 and 30

people come out, 12 operated the SSB station, one the CW station, and five or six the PSK-31 station. Of those who came out, five were not hams but some operated a little just to see

what it was like. They all indicated they were interested in becoming hams. A couple of the non-Hams were attendees of **Bill Fuqua/WA4LAV's** Saturday workshop that was meeting in the Red Cross Building. **Smokey/KE6IVK** grilled steaks, hamburgers, and hot dogs, and had plenty of potato salad and baked beans to feed everyone Saturday evening. We "Sent Out" for breakfast (McDonalds) Sunday morning.

Field Day 2006 was one of the best the Club has held in some time. The weather cooperated (not hot, no rain while we were operating, cloudy with not much sunlight, just good operating). From left, **Steven O'Donnell/K4SDO**, **Bill DeVore/N4DIT**, **Craig McKechnie/KE4FFQ**, **Johnie Watson/NA4J** and **Wes McIntire/KB5POV** operating the SSB and CW stations. Not shown were **Greg Cross/WA8FJK**, **Darryl Bennett/KD4CSW** **George Bartlett/KD4YBZ**, **Warren Moore/NM3U**, **John Moore/KI4ODU** and **Tim Kunkel/KF4MPM** who were working PSK-31 at the far end of the yard. (Pictures by **Harold O'Donnell/K4HOD**). We thank **Smokey Wallace/KE6IVK** for making arrangements with the Red Cross folks. Those folks who came out and signed Smokey's guest book were: **Patrick Hayden** (no call), **Sam Humphries/WA4KKV**, **George Bartlett/KD4YBZ**, **Bill DeVore/N4DIT**, **Johnie Watson/NA4J**, **Harold O'Donnell/K4HOD**, **Steven O'Donnell/K4SDO**, **Darryl Bennett/KD4CSW**, **Gregory Cross/WA8FJK**, **Wilson Wells/N4ZQT**, **Doug Haft/NX1T**, **Linda Haft/WN1G**, **Bobby Rolph/KB4QNR**, **Porter Moore/KG4GTK**, **John Moore/KI4ODU**, **Warren Moore/NM3U**, **Max Froedge/KI4ENS**, **Greg Lubeck** (no call), **Tim Kunkel/KF4MPM**, **David Carroll** (no call), **Jim Prince/KE4PBR**, **Jeanie Dalton/KB8QLC**, **Mike Pugh/KA4MKG**, **Charles Brooks** (no call), and **Andrew Cook/KF4OWP**.

Thanks for Help With Bluegrass 10k, July 4, 2006*

Darryl Bennett/KD4CSW, Coordination of Communications and Member, Bluegrass ARS, Lexington, Kentucky

Nineteen people helped at the Bluegrass 10k race on July 4. Thanks to all.

Bill DeVore/N4DIT
Johnie Watson/NA4J
Frank Yocum/KQ4ZZ
Harry Sparks/KN4S
Wes Sparks
Barry Warfield/WA4UIV

Brian Jones/KF4GZT
Warren Moore/NM3U
Debra Hutchins/KI4ODS
Greg Cross/WA8FJK
Tom Mansfield/KG4TND
George Bartlett/ KD4YBZ

Roger Postley/WD4CRG
Jim O'Donnell/W2LTB
Brandon Nuttall/KG4RRI
Fernie Williams/KE4MAI
Margie Williams/KE4MAJ
Pete Clough/WD4CPO
and me, Darryl/KD4CSW

A couple of things to note. The race was first run in 1976, and Lexington hams have been there to help at every one. Of all the hams who were present at that first event, Roger/WD4CRG is the only one still participating. Roger has been there every time. Thank you, Roger.

According to W2LTB, who was at the medical tent, paramedics treated at least eight runners who were overcome with exhaustion. The hams at the race reported at least three of them. Good job, everybody. That's what we're here for.

73, KD4CSW

*Our club, Bluegrass ARS, has provided health and welfare communications support for Lexington/Fayette County's 4th of July 10k Marathon every year since it was added to the many activities held during the usual three-day holiday celebration downtown. This year, 2017, marks the 41st year we have done that.

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

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

Commercial ads can be arranged, contact the editor.

All copy must be in the hands of the editor by the end of the Board of Directors' meeting on the third Monday of each month. All articles submitted must be accompanied by the author(s) name(s) and contact information.

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

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Annual Dues (January 1 – December 31)

Payable using Pay Pal – Go to <http://www.

BluegrassARS.org>, click on "Membership."

click on the option for your preference as below:

Regular Membership

One year – \$20.00; two years – \$38.00; three years – \$55.00

(Additional family member(s) at the same address \$1.00 each per year)

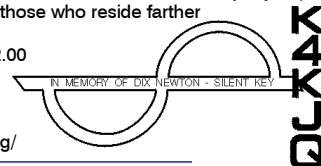
Associate Membership – \$15.00 (for those who reside farther than 50 miles from Lexington)

Full-Time Student Membership – \$12.00

(for those 21 and under, and no other Club member in the family)

Shack telephone: (859) 231-0974

web page: http://www.BluegrassARS.org/



Calendar of Ham Radio Activities for July 2017



- Sat 1 **Shack open** 9:00-Noon; **Radio Theory and Construction Workshop**, 1:00-3:00 PM, basement, Red Cross Bldg, 1450 Newtown Pike.
- Sun 2 **Amateur Television & Specialized Communications Net**, 9:00 PM (146.760 Repeater).
- Mon 3 4th of July Holiday**
- Tue 4 Lexington/Fayette County Bluegrass 10,000 Marathon**, 6:00 AM, downtown Lexington – Provide health and welfare communications.
- Tue 4 **Amateur Swap Net** 145.370 (T-192.8) 8:00 PM; **"Casual Communicators Net,"** 9:00 PM Eastern, 443.325+ MHz.
- Wed 5 **Six Shooters Net**, 8:00 PM on 52.525 MHz FM (vertically polarized); **Fayette County ARES Net, 9:00 PM, 146.760 repeater.**
- Thu 6 **Meeting of Bluegrass ARS Technical Group**, 6:30 PM, Education Ctr, basement, Red Cross Building, 1450 Newtown Pike, Lexington; **Ragchew Net**, 7:30 PM, 145.490 Repeater, Malcolm/KY4MJW net control.
- Sat 8 **Shack open** 9:00-Noon; **Radio Theory and Construction Workshop**, 1:00-3:00 PM, basement, Red Cross Bldg, 1450 Newtown Pike; **License Examination Session, Winchester**, 10:00 AM, contact **Darrell Epperson/AC4YD**, eppersond@aol.com, 859-771-1834
- Sun 9 **Amateur Television & Specialized Communications Net**, 9:00 PM (146.760 Repeater).
- Mon 10 KY-QRP meeting**, 7:00 PM, Meeting Room "B," Red Cross Bldg, 1450 Newtown Pike, Lexington.
- Mon 10 Bluegrass ARS Club meeting**, 7:30 PM, Meeting Room "B," Red Cross Bldg, 1450 Newtown Pike.
- Mon 10 **Jessamine Amateur Wireless Society meeting**, 7:00 PM, St. Joseph/R.J. Corman Ambulatory Care Center, 1250 Keene Road, Nicholasville.
- Tue 11 **Amateur Swap Net** 145.370 (T-192.8) 8:00 PM; **"Casual Communicators Net,"** 9:00 PM Eastern, 443.325+ MHz.
- Wed 12 **Six Shooters Net**, 8:00 PM on 52.525 MHz FM (vertically polarized); **Fayette County ARES Net, 9:00 PM, 146.760 repeater.**
- Thu 13 **Meeting of Bluegrass ARS Technical Group**, 6:30 PM, Education Ctr, basement, Red Cross Building, 1450 Newtown Pike, Lexington; **Ragchew Net**, 7:30 PM, 145.490 Repeater, Malcolm/KY4MJW net control.
- Sat 15 **Shack open** 9:00-Noon; **Radio Theory and Construction Workshop**, 1:00-3:00 PM, basement, Red Cross Bldg, 1450 Newtown Pike
- Sun 16 **Amateur Television & Specialized Communications Net**, 9:00 PM (146.760 Repeater).
- Mon 17 Bluegrass ARS Board of Directors' Meeting**, 7:30 PM, Education Center in basement of Red Cross Building.
- Tue 18 **Amateur Swap Net** 145.370 (T-192.8) 8:00 PM; **"Casual Communicators Net,"** 9:00 PM Eastern, 443.325+ MHz.
- Wed 19 **Six Shooters Net**, 8:00 PM on 52.525 MHz FM (vertically polarized); **Fayette County ARES Net, 9:00 PM, 146.760 repeater.**
- Thu 20 **Meeting of Bluegrass ARS Technical Group**, 6:30 PM, Education Ctr, basement, Red Cross Building, 1450 Newtown Pike, Lexington; **Ragchew Net**, 7:30 PM, 145.490 Repeater, Malcolm/KY4MJW net control.
- Sat 22 **Shack open** 9:00-Noon; **Radio Theory and Construction Workshop**, 1:00-3:00 PM, basement, Red Cross Bldg, 1450 Newtown Pike.
- Sun 23 **Amateur Television & Specialized Communications Net**, 9:00 PM (146.760 Repeater).
- Tue 25 **Amateur Swap Net**, 145.370 (T-192.8) 8:00 PM; **"Casual Communicators Net,"** 9:00 PM Eastern, 443.325+ MHz.
- Wed 26 **Six Shooters Net**, 8:00 PM on 52.525 MHz FM (vertically polarized); **Fayette County ARES Net, 9:00 PM, 146.760 repeater.**
- Thu 27 **Meeting of Bluegrass ARS Technical Group**, 6:30 PM, Education Ctr, basement, Red Cross Building, 1450 Newtown Pike, Lexington; **Ragchew Net**, 7:30 PM, 145.490 Repeater, Malcolm/KY4MJW net control.
- Sat 29 **Shack open** 9:00-Noon; **Radio Theory and Construction Workshop**, 1:00-3:00 PM, basement, Red Cross Bldg, 1450 Newtown Pike; **License Examination Session**, 10:00 AM, contact **Darrell Epperson/AC4YD**, eppersond@aol.com, 859-771-1834
- Sun 30 **Amateur Television & Specialized Communications Net**, 9:00 PM (146.760 Repeater).