

## Roanoke Valley Amateur Radio Club

W4CA

P.O. Box 2002

Roanoke, Virginia 24009-2002

### Officers:

President: Ron Ramsey AB4A

Vice President: Mike Hevener KF4PHW

Secretary: Karen Anderson KI4GOT

Treasurer: Ray Pillow KK4HR

### Board of Directors:

Phil Roark K4WFO

David L Kinsey KS4BO

Ray Crampton AB4YZ

Jerry D Haislip K1SO

### Appointed Positions:

Net Manager: Russ Abbey KG4MAV

Honorary Chef: Bob Anderson K4UMK

Membership:

Club Call Trustee: Ray Crampton AB4YZ

### Log Editors:

Russ Abbey KG4MAV [kg4mav@arri.net](mailto:kg4mav@arri.net)

Charlie Draper AB4SK technical annalist

Karen Anderson KI4GOT Assistant Editor

The Roanoke Valley Amateur Radio Club meets the 2<sup>nd</sup> and 4<sup>th</sup> Friday of the month at the Roanoke Red Cross Building at 352 Church Ave beginning at 8pm.

In addition, the club sponsors a weekly net every Wednesday at 8 pm on the W4CA 146.985- repeater, tone 107.2. Check in five times and receive a net number and certificate.

Everyone is welcome.

The W4CA Log is published bi-monthly by the RVARC for its membership.

The Club also sponsors a V.E. test session every 3rd Sunday at 2pm at the Red Cross, contact Ray Pillow KK4HR at [kk4hr@arri.net](mailto:kk4hr@arri.net)

The RVARC owns and maintains the following open repeaters:

146.985- tone 107.2

442.50+ tone 107.2

<http://www.w4ca.us/>

## Coming events around the area

By Russ Abbey KG4MAV

Next up is the Star City Event, at the Mill Mountain park in Roanoke, starts at 8am on the 18th of July, 2009. Bring a dish or desert and a drink, chicken will be provided and a day of operating. As always this is an event to bring the family to and let them see what we do all year.

Next is a Fox Hunt, this is set up by Pat Lewis N3AYW and will meet in the parking lot of Advance Auto in the Cross Roads Mall at 8am on the 25th of July, 2009 .

Next is the Hamfest, this will be at the William Byrd Middle School in Vinton, VA on the 1st of August 2009 starting at 8am. Prizes this year are a 2 meter mobile, a 2 meter/70 centimeter HT, and a 2 meter/70 centimeter mobile radio. Prizes will be drawn about 12:30pm and you do not need to be there to win, but you do need to buy a ticket.

VE testing for a new license or upgrading is on the 3rd Sunday of the month at 2pm at the Red Cross in downtown Roanoke.



Darian WA4DQ & Ken N4LYO  
20 meter tower installation

## The President's Corner

By Ron Ramsey AB4A

We just finished our 2 most important operating events. There was a world of difference between the two. Festival in the Park and Field Day are as different as night and day but both are equally important to RVARC. We have supported Festival in the Park for 40 years but this year the event was totally flat. Truthfully, it was not fun, just hard work with little results to help the Club. We had a total of 5 operators at the park. This placed too much workload on these operators. The bands were in great shape to the point, we had to shut down the special event station to answer questions from people passing by or go to use the restrooms. The hams stopping by were only interested in Hamfest fliers not information on the Club. I tried to rationalize this by blaming it on bad weather one day but truthfully the Club did not support the event which is our best event to present amateur radio to the public. With a week to go before Field Day, I was worried anticipating a second totally flat event with no participation from club members. To complicate matters the weather was calling for light rain Friday for set up and 40% chance of thunderstorms Saturday. Last Field Day, for myself, came close to being too much work for the amount of fun I had. Plus I did not enjoy all of the ribbing I took from the other clubs for our low score. The weather held all weekend, the Club supported the event, there were enough people to spread the workload out, we kept all the radios on the air and the food was great. Like I said at the beginning, there was a world of difference between the two events. After Festival in the Park, I was totally bummed out and ready to give up on Club activities. This field day was probably one of the most enjoyable ones I have had in a long time and I am totally charged up and definitely looking forward to more club activities.

This is a good time to highlight our future activities. Our summer time picnic and special event "Star City" will be Saturday July the 18<sup>th</sup> at the Mill Mountain picnic shelter. The club will provide chicken and drinks with the club members providing a covered dish or desert.

While the club radio will be on the air, our summertime picnic and Christmas party are our social events so be sure to come out and visit with fellow members. Next up is our foxhunt scheduled for July the 25<sup>th</sup> starting at Crossroads Mall. Who ever is the Fox this time will be hard-pressed to measure a to our foxy fox hunt. In the past our club has been known for some great foxhunts and it seems that this trend is returning. Saturday August the 1<sup>st</sup> is the Roanoke Valley Amateur Radio Hamfest. Because of work at the high school we are moving to William Byrd Middle School. Please help support John and Karen because there will be some additional work with the change so we need all club members both Friday and Saturday to work the event. September the 19<sup>th</sup> and 20<sup>th</sup> will be Blue Ridge Bonanza with Fletch K4DCF volunteering to man Apple Orchard Mountain we have all of the stations in Virginia ready. But they can all use additional operators from the club.

I'm glad to report once again I am pumped up to operate ham radio after Field Day and hope to share the experience with as many club members as possible.

C U on the air, best 73 Ron AB4A



Darian WA4DQ, Phil W4VPI, Ron AB4A & Joe KI4ALA  
Putting up the 20 meter tower

## From Mike Knight K4IJ in the New River Valley:

Mike got to enjoy Field Day with friends at the Echo Star parking lot with the communications trailer of a coalition of hospitals in the area. The trailer is equipped with an array of communications equipment including Amateur Radio and commercial radios for communications with Police, Fire, Rescue, and emergency responders and other hospitals.

“We have radio equipment in all the hospitals and the repeater system links them altogether. When there is an emergency we would dispatch hams to where needed and operate. The trailer is an interoperable communications command center that allows the group to go anywhere and not only has ham equipment but public safety radios as well. It's capabilities are fantastic and includes satellite internet and Nextel/cell capabilities.”

So you know, Mike's repeater system is the 444.175 (base or main) repeater and there a whole bunch of repeaters based in hospitals in the New River Valley to Martinsville. He has not only 70 centimeter band but also has 220 or 1 1/4 meter .



These pictures were sent to me by Dave KK4WW of Mike Knights Field Day in Christiansburg, VA. He had a number of new hams and old hams to help.

This edition of the Log is late, I have had more problems with my computer this month than in the last 6 years that I've owned it. So I bought a new computer with all of the bells and whistles on it along with the latest chip set from Intel. Lets hope that it was worth the price that I didn't pay for this. I got it from Dell's outlet site where they have open box, scratch and dent, and returns or off lease stuff. So the price wasn't really bad for all that I got. I'll let you know how it turns out next month.

Also I'm working on a power point program on how to put together a Tiny Trac 4 with a display and keyboard so this will be fun. – KG4MAV

## Extra! Extra! Latest on Field Day from Crampton State Park

By Ron AB4A

Most importantly we need to THANK Ray for allowing us to use his property fondly referred to as Crampton State Park. Personally I think it's a lot nicer than any state park I have been in!!! Next we need to thank the people you do not see, the best example of this is Dave, he helped load the trailer with all the computers and then pulled the trailer to Ray's place, next he pulled his personal mower to Ray's and mowed the whole bottom and finally serviced the generator, filled it with gas and towed it to Ray's. This was **Three Trips** to the Field Day site before any of us started to work on Field Day. Dave's example is only one of many of the club members who worked tirelessly in the background with no thanks. So **THANK YOU** to all of the ones who help make our events happen.

Field Day started for most club members a week or two before Field Day with a trip to Phil's computer shop to test the computers for Field Day and familiarize us with the new scoring program. The club purchasing the new program has been one of our best additions, even if it did require Phil building all new computers for Field Day. The network along with the wireless network worked flawlessly and we all learned the finer points of operating the program, which has been extremely helpful. **THANK YOU Phil!!**

I arrived at the Field Day site at 8:45am Friday, 15 minutes early, so I stopped to put up to Club banners at the Field Day site. Turned on the 2m only to hear, we had 2 club members already working to remove the gear from the top of the garage. So much for talk in until the signs were put up. We moved the gear off the hill and immediately started putting up the tent shelters; it looked like it would start raining at any minute. The rest of the morning was spent working on the site with about 85% of it done, went the magic hour of 2:00pm arrived. Time to set up the radios and start doing antenna work. Some went to work on the beam and tower, while I and 3 or 4 others went to work on the 40 and 80 m dipoles.

40 m went up with no problem. Armed with a slingshot the first end of the 80 m went up with three shots in less than 20 minutes. On to the other end!! The very first shot hit a large branch and came right back at us. Eight shots later and one loss lead weight, we had a good shot directly over the same branch we used before but it was near the creek. After Charlie's experience with the creek last year (he fell in head first in 8 inches of water and mud) he traded places with me and laughed as I tried to fish the line from the creek with the stick. From that point we had no problem pulling the antenna rope through

the trees. As I was tying the antenna rope off to the tree Charlie had another laughing fit. As I walked up to meet Charlie it was obvious, the antenna was only 20 feet off the ground instead of the minimum 50 feet high. So after an hour's worth of work we had to pull it all down and start over. Shot right over the top and ran into a problem I've never had before, we ran out of fishing line before the weight reached the ground but we got the antenna up. Oh well, at least they didn't have any trouble with the beam.

Saturday, was going to record the message from ARRL, with about four minutes to go the FT-900 radio just shut down? Ran to the car, and recorded most of it off of the IC-706. Took the 706 out of the car and programmed it for the GOTA station. Hooked the 900 back up and it worked perfect all weekend. Go figure!!!

The magic hour arrives it's two o'clock, my GOTA, 20m, 40m and 80m stations go on the air. Almost immediately the 80 m loses power cure the problem, 40 m the voice keyer goes down just the hand mike in the wrong adapter and finally the beam that didn't give us any problem will not rotate. This one was a little bit more involved, a wire was pulled out of the rotor but Jimmy saved the day by climbing the tower and rotating it by hand. After all this activity, everything ran smoothly. Dinner was great especially the "radio cake" and the weather turned out great the whole weekend.

The Roanoke Times arrived Sunday just before lunch and ran a good article in Monday's paper. 10 and 15 m opened up and we were making contacts right up to the time limit at the GOTA station. I guess the high point for me, watching our new ham's call CQ and run a pile up for the first time and next would be one of the girls who came with the rescue squad groups, who worked Vermont and then Ontario Canada. She came back and worked a total of 43 contacts and I feel sure she will get her license. Our raw score exceeded our final scores for the last two years. Most of this improvement was our members who worked CW and digital contacts for us and that we kept the radios on the air.

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### For Sale:

Hitachi Oscilloscope v-355 35 MHz  
Call Rex KB4CQW at 389-5462  
or email [rexsharr@comcast.net](mailto:rexsharr@comcast.net).

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## The Roanoke Times Article On Field Day

Sent to me by Wally Denison W5WMD

### Roanoke Valley Amateur Radio Club finds the right frequency

#### Members of the Roanoke Valley Amateur Radio Club made it their mission to seek out fellow radio enthusiasts across North America.

By Laurence Hammack

981-3239

Field Day, an annual exercise across the country, is an opportunity for ham radio operators to test their ability to relay information.

**DALEVILLE** -- Of the 3,077 counties across the United States, Jerry Haislip has contacted a fellow ham radio operator in all but nine.

Four of the counties Haislip is still trying to reach are in Idaho; If he's going to complete his national sweep -- a goal he's been pursuing since 1991 -- Haislip figures he'll have to contact someone on a mobile unit.

"Some of those counties in Idaho don't have anything but cows and trees," he said.

For amateur radio enthusiasts as dedicated as Haislip, last weekend offered the perfect opportunity to binge.

In a meadow near Daleville, members of the Roanoke Valley Amateur Radio Club erected a makeshift antenna tower, fired up a gas-powered generator and manned radio equipment set up in campers and under tents.

Their mission: To contact as many places in the United States and Canada as possible within 24 hours.

Known as Field Day, the annual exercise takes place across the country on the fourth weekend of June. The idea is to test the ability of ham radio operators to relay information during emergencies.

Working the airwaves nonstop from 2 p.m. Saturday to 2 p.m. Sunday, the club was expected to reach more than 2,000 members of the emergency contact network.

Ham radio operators have long been known for their knack in reaching areas cut off from communication by floods, hurricanes, earthquakes or other natural disasters.

They also stand by closer to home, ready to assist local police and rescue agencies should their communication systems fail.

Public service is what appeals to most ham radio operators, said Ron Ramsey, president of the Roanoke Valley Amateur Radio Club. But there's also the allure of chatting with like-minded people, no matter where they might be.

When I key the mike and call CQ [a general call to anyone] I may get Australia or I may get Floyd County," Ramsey said. "It just fascinates me that I can talk from that distance to somebody on just a little piece of wire."

The result is a close-knit community of people, well-versed in the technical jargon of their field and who are likely to refer to themselves by the call signals issued to them by the Federal Communications Commission.

For Ramsey that would be AB4A; Haislip goes by K1SO.

"That's what they know me by," Haislip said. "They may not know my name, but they know what my call signal is."



John Carroll (right) uses Morse code to find other ham radio operators on his frequency, while Charlie Draper logs radio communications during the Roanoke Valley Amateur Radio Club's Field Day in Daleville. Photos by ERIC BRADY The Roanoke Times

*Our thanks go out to Laurence Hammack of the Roanoke Times for this great article, and of course to Ron and Jerry for their time and dedication to Amateur Radio.*

# Youth Activities

By Ron Ramsey AB4A

Roanoke Valley ARC supported ITT Safety Scout Day. We were one of the original Boy Scout merit badges offered at ITT as Radio Merit Badge. We are the only group to have offered their Merit Badge every year and it has grown to become one of the more popular ones offered. The first year, we had 37 scouts total for the day. Last year, we had 105 scouts with 2 complete 2 m and HF radio stations accompanied by two portable HF radio stations in the parking lot. We were hard pressed to produce a quality program with these numbers.

On Saturday May the ninth, we started our latest Radio Merit Badge class but we were handicapped by having only one 2 M and HF radio station functioning so we only took the pre-registered scouts. Personnel wise, we were in good shape with Ron AB4A, Linda N4LCL, Chris KJ4HJR, Winston W4IXC, Ed WB4MMW, Gary AJ4GL, Phil K4WFO, Ray AB4YZ and Karen KI4GOT. We had plenty of personnel to divide the activity of with one ham taking half the group to operate HF while a second ham took the other half to operate 2 M, all along Phil K4WFO is teaching the theory part.

This sounds like a great set up until we realized that Ron AB4A had to teach the operating procedure then when the group divided up to operate they were both inside the tent which meant Phil had to talk over top of them to teach his theory needless to say his voice did not last the day. We had 51 scouts earn their merit badge but these low numbers were only because of having only one operating position. There were 700 scouts plus in attendance and the figures grow each year sorry we had to turn away some boys this year.

Our next youth activity would be the Hidden Valley High School Radio Club licensing classes. This took place Thursday, Friday and Saturday May 14, 15 & 16 at the High School. Again we had good personnel with some of them giving up a second Saturday, Josh KI4HDI, Bob KJ3Y, Lee WA4AJG, Ron AB4A, Gary AJ4GL and Linda N4LCL. Thursday and Friday from 3:15pm until 7:00pm we covered T1 through T7 then Saturday morning starting at 9:00am we covered T8 through T10 and started going over problem areas. At 10:30 am Gary AJ4GL set up PSK 31 and we made some digital contacts. At one o'clock we all started taking practice test on the Internet until the pizza arrived, then at two o'clock the VE test session started. We picked up two new hams

at the Tech level, Micah KJ4MID & Zack KJ4MIE and then Jake KJ4MIF who passed both Tech and General. Listen for these new hams and make them feel welcome.

Thursday May the 28th at 4:45 pm Richard KZ4VT had a combined William Byrd Middle and High School Club meeting at Frank's pizza. This was their last meeting of the year and their results for participation in School Club Roundup were announced but I will leave that up to the sponsors of each club.

Monday June 1<sup>st</sup> Hidden Valley High School met for their final meeting of the year. This was probably the most fun I've had with the kids. Instead of using the club call with a control operator each of the new hams got to try out their call. The 2 m repeater calls were with Russ KG4MAV and John WD6FLL then it came time for our general can make his first HF contact. There was someone scratching on us on 40 m so I had him tuned to look for them.

He located Stan K4UK (usually only on CW) talking to a Michigan station. Recognizing Stan's voice I ask for a quick break. The Michigan station was 59 plus and Stan about 55 then came the surprise, it turned out there was a third station in the QSO and he lives less than 600 yards from the school (that was the person who was scratching on us). He was running a amplifier and had a tri-band beam antenna

pointed at us. You should have seen me looking for the AF knob and the ATT button but he was gracious enough to let the student make a contact to Michigan. This fall Hidden Valley should have their "Big Project" grant from ARRL.



Ron AB4A, Dave KS4BO & Charlie AB4SK

## A Very Special Ham Radio Picnic

By Ron Ramsey AB4A

Recently I was invited to a really nice get-together at Longwood Park (Salem) where I encountered some very warm and friendly People. Good Clean Family Fun... With wonderful helpings of Fellowship ( both Patriotic and Christian), and Music, and Technology, and Food. Did I forget to be thankful for all that mostly home cooked food??? No I didn't.....I even remembered to say "Grace;" (my thanks for ALL the goodies) AFTER the meal TOO. One can't be too sure that another picnic like that will come along again real soon... But it just might, if you pay close attention to this article...

Another treat was the invitation to break out my fiddle and attempt to learn some old-time hymns/ ballads/ mountain and country music songs... A very patient group of "real" musicians (real are those that play from the heart) which included Base, Dobro, and Guitar--- Let me sit in and harmonize.... Now that is what I call a HAM RADIO BAND....(Hi, sorry Brother Floyd....)

I sure did feel like family, as a matter of fact everyone there did. The big shock for me was that with all the comfortable chit chat it seemed like everyone was from the same family which now somehow included me, that actually wasn't the case. We were just kinfolk with at least 2 things in common: The love of Ham Radio and having been befriended by Doc Adams (KC4DPY)...

Now Doc is a gentleman you don't get to see and talk to enough: a real treat- especially considering he doesn't ever remember he is a "retired" minister of the Good Lord. Ok, so you really don't actually retire from that calling ... And what about him somehow having time to be a friendly ambassador for Ham Radio in all his travels in the service of the Lord? Its really like the ultimate CQ and TIME VALUED MESSEGE...now that is what I call a COMMUNICATION! About 34 folks attended and if you study the roster from 6 June 2009 (listed in the log after this) you will see that these people are a dedicated bunch of Hams to travel so far!

I really appreciate Food and Music for the soul- Great Food and Fellowship for the mind and body as well- And, did I mention there were

Home Grown radios to be seen and operated if you wanted? (cool stuff like DSP, QRP, and those incredible Elecraft radios) I was even introduced to some really special folks who worked at Green Bank

( Beautiful West Virginia- biggest radio antennas comes to mind )... With that kind of Technology what more could an Amateur radio mechanic [like me] ever want?? (Listening to Heaven as well )

Now here is a secret: Don't tell anyone but the Roanoke Valley Amateur Radio club will have a Special Picnic Too and it can be as nice... especially if you guys show up and bring lots of food----- OK I apologize for that "Floydian" slip... Please bring lots of fun people too... It will be good to see you again (wow!! what a busy year)

Our club picnic is called a Star Event and takes place up on Mill Mountain under a shelter nearest the "STAR" of course ... See you there [ July 18, 2009 ] It's Potluck also, and with any luck Lunch starts at Noon right after Grace...AMEN !!!



Ron AB4A & Ken N4LYO  
putting up one of the club tents

There are a lot more pictures at the web site, <http://pics.w4ca.us>. My thanks to Ron AB4A, Jerry K1SO, and other people who contributed to the Field Day articles and pictures.

Russ Abbey  
KG4MAV

## FataMorgana 3

By Pat Lewis N3AYW

### The Rig

In every ham radio there is a little circuit that comprises the minimum necessary set of parts to make up a functional transceiver. (Or just a receiver or a transmitter...)

And this working circuit is basically a QRP (low power) rig. So does that mean that everyone really operates QRP? Well no, unless the other parts have failed, you have lost power output and these parts are just in the way of your desired signals (in and out) Sort of unnecessarily filtering stuff out or worse... (been there done that) What it does mean is that there are really simple circuits (although a whole bunch of them) doing simple things to make this radio/wireless miracle work for us.

Some things come to mind (at least in this amateur's brain) The first would be; because of the obvious simplicity of [most] of these circuits--- when you look at them only one at a time--- it is really apparent that in 100 or so years of Radio design hasn't gone very far. We have not even scratched the surface. We just make the same things better and cheaper and smaller and occasionally more efficient. But it is the same invention repackaged. Sounds like the way we have been building our automobiles too.

The second thing; at least in the case of radios--- is that most of the work is still done in the antennas and in the natural propagation of all our frequencies we get to use. Every year/month/day Amateurs and Professionals alike continue to discover incredible distances covered by less and less power. Even old timers (if they are willing to let go of some of their DXing and Contesting tricks) will tell of their adventures. Most of these adventures deal with people stuff and techniques that have given them the edge. And some of the adventures deal with using hardly any power at all- to make unbelievable contacts. (Occasionally by accident... I don't want to talk about it...)

We ALL [after paying megabucks for our super duper rigs] are in DENIAL about this: so much so that we warn our fellow Hams, should they decide to operate QRP, to never admit or mention it--- so as not to scare away a potential contact with amateurs, many of which are running big power.

I am not at all trying to convert you to QRP, though we all may be headed that way due to future energy concerns, and the newest mindset that may eventually affect our use of the Electromagnetic Spectrum as another natural resource to be used more efficiently...

SRI, I won't go there... Remember and continue to remind EVERYONE not just fellow hams that this is a FUN SERVICE and Hobby provided for and by Volunteers...amateurs..... And I forgot to mention that the "amateur" part invokes something called experimentation, something called Advancement of the Radio Art.

Well here is the best part--- we are not even close to being done! Now is the time to get building and experimenting--- this is an exciting time to be an amateur radio operator. If you have some crazy idea (maybe you don't think it is) and no one you have talked to at your radio club thinks it has any possible way of working or at least improving the operation of our "rigs".... Tell them anyway, and safely try it if you can... surround yourself with a few people who are not afraid to talk about or try new stuff.

Somebody at the club is hatching up some really cool project that just may be the next invention or stepping stone in radio. They have to because as incredible as our radio equipment is TODAY..... we are still compensating with tricks, techniques, and some very simple (and very economical) homebrew technology that can sometimes run circles around 1000 Dollar rigs.

If you don't really believe me, I will always respect your opinion, however I challenge you to try a homebrew project--- maybe a radio built from a kit... or maybe just an easier to build accessory for your rig. But I must warn you there are some really INCREDIBLE state of the art and CUTTING EDGE radios out there to build. And I take no responsibility if you are so impressed you throw/ give away or sell your other rigs.



## Some new and some old web sites

For the new ham, go to;

[www.ac6v.com](http://www.ac6v.com) For everything Amateur Radio related. Including operating procedures.

[www.eham.net](http://www.eham.net) Good for help and used equipment.

[www.qrz.com](http://www.qrz.com) Good for used equipment and forums.

[www.qth.com](http://www.qth.com) Excellent for used equipment.

[www.arrl.org](http://www.arrl.org) National organization for Amateur Radio.

[www.aprs.org](http://www.aprs.org) All the info in one place for the Amateur Position Reporting System.

[www.amsat.org](http://www.amsat.org) For the current satellites we can use.

[www.w4ca.us](http://www.w4ca.us) The web site for the Roanoke Valley Amateur Radio Club.

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The Roanoke Valley Amateur Radio Club and all of the clubs in the area are always looking for hams to help with emergency services, help with events, to join their clubs or organizations and help with public service.

If you have an article for the Log or something for sale please let me know and I'll get it into the next Log. For members of W4CA, all ads are free, if you're not a member there is a small charge. – Russ **KG4MAV**

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## More on the Hamfest

By Karen Anderson

Well, the Hamfest is coming up, August 1<sup>st</sup> for those who haven't heard. I'm crossing my fingers, since this is my first hamfest. We will be in William Byrd Middle School this year since the High School is undergoing construction. Volunteers will be greatly appreciated during setup on Friday July 31<sup>st</sup> (2pm) and Saturday morning, August 1<sup>st</sup>, starting around 5am.

We have a few big vendors coming again this year. Cedar City Sales and Quicksilver will be back again this year, and I have had confirmation that Hamfesters will be back this year, after having to miss last year. For those who don't know Hamfesters, they make custom embroidered hats and badges. I know I missed having a new hat made.

There will be a VE testing session at 11am in the Band Room just to your right as you enter the school, and Marion will be doing Bingo again this year in the Choral Room. We will also have food concessions again this year thanks to Michael Hevener's mother. (Sorry, I'm bad with names)

Just a reminder, we will be raffling off the P Buckley Moss print so get your tickets before it's too late! We also have a pretty good lineup of door prizes to award. The Grand Prize will be a Yaesu FT-8800, dual band mobile radio with separation kit. Second Prize will be a Yaesu VX-3R dual band HT. Third Prize will be a Yaesu FT-2800 2 Meter mobile radio. Other door prizes will include several gift certificates to the ARRL store and a logging software package by N3FJP. This is the same software the club is now using for all contests and events. For more information on this software you can check it out at <http://www.n3fjp.com>, or come down to the Radio Room at the Red Cross before a meeting and check it out.

For more information on dates and times, please go to <http://www.w4ca.us>.

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