



The VHF Transmitter



Keystone VHF Club, Inc.

W3HZU

Founded 1955 – York, PA

VOL 61 No 3

CIRCULATION 173

March, 2016

Club House Activity

On February 10th we had our second soldering and Slim Jim building session up at the club. Six members hacked, cut, and butchered 60 inch lengths of 450 ohm ladder line into great performing antennas (only kidding about the "butchered" part, actually everyone meticulously carved their ladder line into works of art). That gives us 19 members who made these things. Everyone who uses them sounds great!

So far, Ryan Duke, KC3FSJ and Dick Goodman, WA3USG have built "Tape Measure" 2 meter beams. On Thursday evening, Feb 25th, they both faced off to see which design was better. From the club site, using their HTs, they pointed their antennas down toward the 146.73 MHz repeater in Frederick Maryland, a distance of about 65 miles. The results were full scale readings on both antennas. On a rubber ducky it is barely copyable. These antennas work & they work well!

On the same night, Eric KB3CNH and Tony, KC3EED ran tests using their Yaesu FT1XD HT's. Over the course of a 7 mile route, they switched between analog FM and Fusion C4FM digital voice to compare how digital compared to traditional analog FM out in the real world. Since the FT1XD is equipped with an on-board GPS receiver, during the course of this test they knew precisely how far they were from each other. The results were quite interesting and I'm sure that they will be discussed for months to come.



On Sunday, February 28th, Tim, W3TWB put the final touches on the clubs portable 2 meter repeater. This unit was donated to the club by the Civil Air Patrol (CAP) about a year ago. Tim has repackaged the repeater in a heavy duty enclosure similar to a Pelican case. We tested the performance of the repeater by placing it on the air in lieu of our normal MSF5000 for about an hour. It performed extremely well. We then took it outside and connected it to an omni directional base antenna atop the clubs air mast. This put it at about 30 - 40 feet above ground level (however 140 feet lower than the repeater antenna that we initially tested it with). Performance was decidedly down but that could be expected. Additionally, we were running the portable repeater at a power level of 10 watts, vice the 100 watt output of the MSF. Even with these handicaps, Dan, N3EEI got in well from the Tuscarora Tunnel on Route 76, a distance of between 60 & 70 miles. This repeater will be used at our public service events when needed.

The Great Snowstorm of January, 2016 ... and a major "Thank You" to Rich Diem, W3OKU

January & February of this year have been the most active months that I can recall since I joined the club in 1983. All of this wouldn't have been possible if Rich wouldn't have come up here twice to plow our parking lot out! *Rich ... a belated thank you for doing this and giving all of us somewhere to spend time this Winter ... otherwise our cabin fever could have been considerably worse OKAY YOU!!!*



This was done last Sunday! I don't know about any of you guys but I can't believe this! This is our shed!! I have no idea what came over us to get the place cleaned out so well! Maybe it was the knowledge that Spring is just right around the corner. Whatever it was, if you want to see it like this, I wouldn't waste any time stopping up because I don't think that it will stay this way for long!

NEXT MEETING

Thursday, April 7th at the York County EOC
Located on Davies Drive

Schedule of Keystone VHF Club Sponsored VE Testing for 2016

Laurel VE Group Testing sponsored by the Keystone VHF Club are held the second Saturday of the odd months. All tests are at 10 AM, pre-registration is appreciated except at the Hamfest. Contact, Ralph Brandt at ralph.brandt@comcast.net or phone 717-792-1017.

Locations are York EMA Office at 120 Davies Road, York, or Keystone VHF Club on Deining Road, York, near the Rocky Ridge Park

Testing dates: Mar 12 May 14 Jul 9 Sep 10 Nov 12

Keystone VHF Club sponsored testing by the Laurel V.E. Group. These sessions are held in the Training Room at the York County EOC, 120 Davies Rd., York, PA. Testing starts at 10:00 AM. Preregistration is appreciated. *Contact Ralph Brandt at: Ralph.brandt@comcast.net or phone 717-792-1017 to register.*

VE exams will be sponsored by Southern Pennsylvania Communications Group (SPCG). These sessions are held at the Shrewsbury Borough Building, 35 Railroad Ave., Shrewsbury, PA. Testing starts at 9:30 AM. *The point of contact for these sessions is Nate, WN3I at wn3i@comcast.net.*

Apr 9 Jun 11 Aug 13 Oct 8 Dec 10

Local area nets:

Capitol Area Traffic Net starts **Monday at 8 PM** on the South Mountain Radio Amateurs (SMRA) repeater on 146.46 (67.0 tone), 1 MHz offset.

The Combined Club ARES/RACES Net meets **Monday at 8:30 PM** on the Keystone 146.97 Repeater (Tone: 123 Hz).

South Mountain Radio Amateurs (SMRA) Net on **Monday at 9 PM** on the 145.43 (Tone: 67 Hz) repeater located in Mt. Holly Springs. *After the normal FM net, a group moves off to 144.210 MHz, operates SSB*

The Keystone VHF Club Digital Net on **Tuesday at 8 PM** on the York 146.97 Repeater.

The Keystone VJF Club ELMER Net on **Tuesday at 9 PM** on the York 146.97 Repeater right after the Digital net

A local FM Simplex Net runs **Thursday at 8:30 PM** on 146.55 MHz.

South Central PA 10 Meter Net **Friday at 8 PM** 28.495 MHz USB

**** Listed below are some local 10 meter nets ****

Ham Shack Talk Net - Monday at 9 PM: 28.335 MHZ.

Delaware Lehigh Valley ARC Net - Sunday 4:00 PM: 28.430 MHZ

Do Drop In net - Sunday 8:30 PM: 28.450 MHZ

Penn- Mar Club net - Friday. 8:30 PM: 28.495 MHZ.

10 Meter Ragchew Net - Every evening starting 7:30PM: 28.600 Mhz

Trustee's Report



Tim, W3TWB



Dick, WA3USG



Jeff, KB3RCT

You gotta come up and look in the shed. You better do it soon. It's clean now but there are things just longing to get back into it. Start thinking about a Spring clean up work party. We need to take a good hard look at the tower guy anchors too, especially the one down in the woods on the west side of the property.

Scheduled Club P.S. Events for 2016

* **April 10, 2016 - Buckridge Burn Hike Pine Grove ***SJ**

POC: Dick Goodman, WA3USG wa3usg@verizon.net

* **Date TBA, 2016 - Peach Bottom Nuclear Power Drill**

POC: Sandy Goodman, N3ECF slgoodman1@verizon.net

* **April 17, 2016 - York MS Walk**

POC: Sandy Goodman, N3ECF slgoodman1@verizon.net

* **April 24 2016 - Ironmasters Challenge Hike *** SJ**

POC: Dick Goodman, WA3USG wa3usg@verizon.net

* **May 1, 2016 - March of Dimes March for Babies**

POC: Jack Dellinger, KC3JD jkdelli@aol.com

* **June 10, 2016 - 5K/Walk Run (Rudy park)**

POC: (Brian, KC3CFW bkimes@klimesgroup.com)

* **June 18, 2016 - Double Creek Half Marathon**

POC: Sandy, N3ECF slgoodman1@verizon.net

* **Date TBA - The York Marathon *** SJ**

POC: Jack Dellinger, KC3JD jkdelli@aol.com

* **Aug 13, 2016 - Red Lion Street Fair**

POC: Jack Dellinger, KC3JD jkdelli@aol.com

*** SJ (Your Slim Jim will work here)

* **Aug 6-7, 2016 - MS Bike Tour Gettysburg *** SJ**

POC: Sandy Goodman, N3ECF slgoodman1@verizon.net

* **Sept 3, 2016 - Kings Gap Time Trials**

POC: (Micah Neff, KB3TGY tortmentor@aol.com)

* **Sept 10, 2016 - KTA Superhike *** SJ**

POC: Ken Wiggins, N2DYK n2dyk1940@yahoo.com

* **Sept 18, 2016 - Three Creek Century Bike Tour *** SJ**

POC: Dick Goodman, WA3USG wa3usg@verizon.net

* **Oct 30, 2016 - Michaux Team Challenge *** SJ**

POC: Dan McGlothlin kb3mun@mcglothlin.us

* **Dec 24-25, 2016 - Glen Rock Carolers**

POC: Stan Walters, AB3EM abacuspc@comcast.net

Amateur Radio Support in the Great 2016 Earthquake in Summerville, SC

On the morning of Wednesday, February 24th, an earthquake with a magnitude 4 on the Richter scale struck Summerville, SC. This led to some light damage and a train derailment (which was not officially correlated to the quake). The derailment caused traffic jams and light damage to building and infrastructure in the vicinity of the event. Clean up had been progressing satisfactorily when a local television station broadcast a news flash that they were experiencing another quake. The quake rose to a magnitude 6 and the station went off the air. About 15 seconds later the earthquake was felt in Summerville.

This was the scenario for a 6 hour drill at the Emmitsburg Emergency Management Institute (EMI) that YARS members Jack Dellinger, KC3JD, Sandy Goodman, N3ECF, and Dick Goodman, WA3USG participated in on that day. This was the third time that the Institute has asked us to take part in their training programs.

EMI trains Emergency management personnel and first responders from all over the country. In this case, Mayors and city officials from a variety of small town near Summerville, SC were in Emmitsburg along with 50 to 75 or their Emergency management personnel.

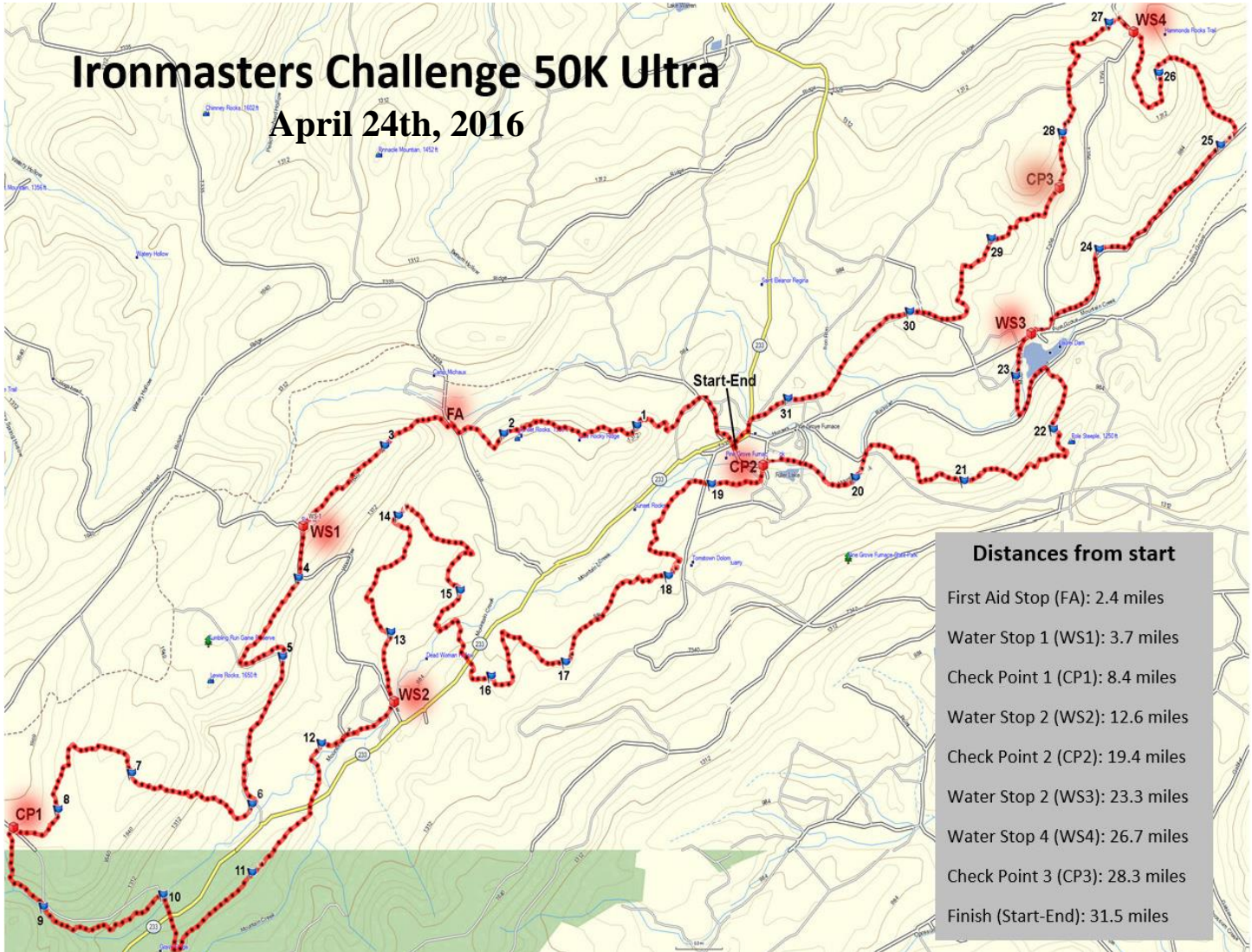
The drill was designed to be realistic as possible. It even included professionally produced news broadcasts that kept us up to date. Part of the training was for the city officials to go on television to inform their people of the status of the quake, what was being done, and what to do. Something they would have to do if this was real.

I think that this was the most realistic drill I've ever been part of. Our function was to pass traffic between the Main Emergency Operations Center (EOC) and a variety of other agencies. During the course of the day, we passed about 30 to 40 ICS-213 forms on 2 meters via FLDIGI.

All messages were passed successfully and I believe that EMI continues to feel that we are an asset to their training curriculum. Our main problem with operating there is that our radios, computers, and antennas have to be in the same room with very little separation. In the past, we have had our own RF get into our equipment, this time we had no problems.

The Ironmasters Challenge Hike Series
High Adventure in the Wilds of Pine Grove Furnace
 By Dick Goodman, WA3USG

Ironmasters Challenge 50K Ultra
 April 24th, 2016



Distances from start	
First Aid Stop (FA):	2.4 miles
Water Stop 1 (WS1):	3.7 miles
Check Point 1 (CP1):	8.4 miles
Water Stop 2 (WS2):	12.6 miles
Check Point 2 (CP2):	19.4 miles
Water Stop 2 (WS3):	23.3 miles
Water Stop 4 (WS4):	26.7 miles
Check Point 3 (CP3):	28.3 miles
Finish (Start-End):	31.5 miles

The sun peeks above the horizon a little after 6:30 AM. About 400 participants get ready to set off on a grueling **31 mile hike** that will

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cross over 3 sets of mountains. The trail runs the gamut of hard climbs, steep descents, and creek crossings. In places the hikers are walking the precipice of a rocky cliff with a 50 foot drop to the ground below. We have cuts, bruises, sprains, dehydration, exhaustion, and even some broken bones and there are always hikers who become lost. This is why it is called the "Ironmasters Challenge." It is our job to keep track of each one of those hikers ... everywhere, on any of the trails that make up this route.

To make the day just a little more interesting, there is also a second hike in this series that starts an hour after the first one. This hike is over 9 miles in length and it intersects the route of the first hike in two places. Both hikes run concurrently. Not only do we have to keep track of all the hikers, we have to ensure that they are on the correct route! When you add up the participants from both hikes, it comes up to almost 600 people.

We provide all communications for this event. We are not backup or secondary communicators, we are it! Cell phones work in about 25% of the locations out here. If you attempt to contact someone via cell, you have a 25% chance of getting a cell site and then another 25% chance of getting the person you want to call ... extremely poor odds!

Looking at the map above, we have communicators at the event start/end location at the Ironmasters Mansion at Pine Grove Furnace. We have communicators at the First Aid Check point at about mile 2.2. We have communicators at each of the three main check points (CP1, CP2, CP3). Finally, we provide sweeps to stay right behind the last hiker so we know precisely where the end of the hike is.

As well as providing communications, at each of the three check points, each checkpoint is given a hard copy spreadsheet to check each hiker in & out. Each hiker is wearing a BIB number and our listing is in BIB number sequence. The spreadsheet contains the BIB number & name for every single hiker. If at the end of a specified length of time, you have hikers on the list who have not checked in, this info is radioed back to the Net Control and we start to try to find where they are. In some cases they are lost, tired, or have become injured. We coordinate with the other checkpoints, our sweep hikers, the event organizers, and in some cases with Forest Rangers to locate them.

In the past, we have located lost hikers, provided first aid to some, stayed with hikers too tired or injured to continue, and arranged ways to get them back to the starting location or to professional first aid. It is a challenging day and it really shows the value of Amateur radio!

Where we need people this year (see map - previous page):

Start/End site at the Ironmasters mansion:

We need a Net Control Station (NCS) and someone who can be a runner for the NCS. The event organizers will be here and if there are questions from the communicators out in the field, we need to be able to find the appropriate person ASAP.

Jack Dellinger, KC3JD usually handles the NCS function.

Sandy Goodman, N3ECF hangs around the event registration area and updates the participant list to take into account people who scratch (didn't show up) or new entries. It is important that the lists of participants be correct. Generally, the lists are distributed early in the morning. Sometimes Sandy takes the updates to the NCS where he radios out the scratches & additions to everyone. If there would be a massive amount of changes, Sandy drives an updated list to each check point. This will be determined the morning of the event.

First Aid Station (FA) at hike mile 2.2: On Michaux Road

Ralph Brandt, K3HQI has manned this position in the past and hopefully will again. This is a critical position and most of the hike injuries are reported from here. The trail passes over Sunset Rocks which has treacherous footing in to mornings. This is because the rocks are wet and very slippery. There are quite a few falls here, a couple of years ago we had a girl with a broken wrist. Since this station is so close to the start, when there are problems generally the hike sweep is not too far behind. For some reason however, folks manage to get off course here and end up coming out on the road south of this check point. When this happens, it's hard for them to find the trail to continue. *We need another communicator with Ralph here.*

Check Point 1 (CP1) at hike mile 8.4: On Dead Womans Hollow Road

Dan Shortencarrier, N3EEI has named this position in the past and I hope that we get him back again this year. This is one of the highest checkpoints in the event. A lot of people who make it here are really beat because a couple of miles back, they had to climb Blueberry Hill Trail. This is about a 1 mile climb that is so steep that in many places you have to grab handholds to pull yourself up. I recommend that you park your vehicle in a lot about 1/4 mile from the checkpoint and walk in. It's down hill & not a difficult walk but there's not a lot of room to park where the check point is. This is the first check point where we have to log the participants in. Since this is still fairly close to the start, hikers will come through in bunches. We need to be fast to ensure that we don't miss anyone logging them in! **We need at least 2 additional communicators with Dan.**

Check Point 2 (CP2) at hike mile 19.4: At the Brickyard Pavilion in the Park

This check point is right in the park and less than 1/2 mile from the start/end. Hikers here have gone almost 20 miles and they are tired. Again, all hikers must be checked in before they continue on. Some hikers are so tired, and they know that the finish line is less than 1/2 mile away. Some of them will just quit here. We have to make sure that if

they do this, we log them out of the event and call their BIB numbers into the NCS. If they log into this check point and then sneak away, the next check point won't log them in and they will be reported lost or missing. **We would like to have at least 4 communicators here** to ensure that this doesn't happen. All in all, this is a great check point for a newbie. Access to food, bathrooms, and nice scenery for us guys!

Check Point 3 (CP3) at hike mile 28.3 Off Cold Spring Road (back about 100 yards)

This is probably the most critical Check Point of the entire route. This is the last check point and after 28 miles, the hikers are tired! Both the 31 & 9 mile hikes pass through here. The bulk of the 9 milers come through late in the morning. Last year, we had a major problem here. One of the check point operators did not man his position. I was notified of this and tried to arrive myself ASAP. Unfortunately, we were in the middle of trying to locate a lost hiker who had called 911. I wasn't able to get there until almost noon. As a result of this, we only had one communicator at the site. Hikers started coming through in large groups and the single person there could not keep up with logging them in. We ended up losing accountability for 18 hikers. Fortunately everyone finished okay with no incidents. **This year, we would like to have at least 3 communicators there starting early morning.**

This event takes place in the forests around Pine Grove Furnace State Park and in the park itself. It's a great way to spend a full day out doors operating in the field. The hikes that take place are not a walk in the woods. The 31 miler is a challenge to the most serious hiker. Every year we have incidents, fortunately none have been extremely serious. We always end up assisting folks. This is ham radio at its best!

I'm writing this article especially for our new members & new hams. Working this event is truly an ADVENTURE! I hope that you will come out and help us. It's a day you won't soon forget. Please see the sign up sheet below. If interested, give me a call at 697-2353, drop me an e-mail at wa3usg@verizon.net, or speak to me on the air.

73, Dick, WA3USG

Station	Position	Name	Call
Start/Finish line	NCS	Jack Dellinger	KC3JD
Ironmasters	Secondary OP		
mansion	Operator,runner	Sandy Goodman	N3ECF
	Operator/assist		
	50K Sweep (Part 1)	Dick Goodman	WA3USG
	15K Sweep (entire)	Joe Imgrund	KB3TCM
First Aid station	Primary OP	Ralph Brandt	K3HQI
Michaux Road	Secondary OP		
Check Point 1 (CP1)	Primary OP	Dan Shortencarrier	N3EEI
Dead Womans	Secondary OP		
Hollow	Standby OP		
	50K Sweep (Part 2)		
Check Point 2 (CP2)	Primary OP		
Brickyard Pavilion	Secondary OP		
	Standby OP		
	Timer/OP		
	50K Sweep (Part 3)	Dan Melato	KB3JSV
Check Point 3	Primary OP		
Cold Spring Spur	Secondary OP		
	Standby OP		
	Standby OP		
	50K Sweep (Part 4)	Dick Goodman	WA3USG

As you can see, we have lots of slots free. Think about it. We will start actively requesting volunteers next week via e-mail.

What are KVHFC members doing now?

Brand new member **Chris Gianios, K3HAE** of Mechanicsburg is on the air big time with a nice new Kenwood TS-2000. His HOA doesn't allow outside antennas but Chris has been busy. He has been using a small Comet HF antenna up in his attic. It's basically equivalent to using two opposing Ham Sticks. Last week Chris was at the club and Tim, W3TWB put together a full 40 meter dipole for him. Chris did some measuring and found he had less than 50 linear feet of space in his attic. We directed him to a rather neat site on the internet that allows you to select a frequency and how much space you have available. The program then gives you dimensions and instructions on how to wind the proper loading coils for a shortened dipole.

Chris modified Tim's Dipole, added the loading coils, and found that it fit perfectly in the available space. Dick, WA3USG came over and using an antenna analyzer, we pruned the antenna to a point where the SWR is a 1.5 at the band edges.

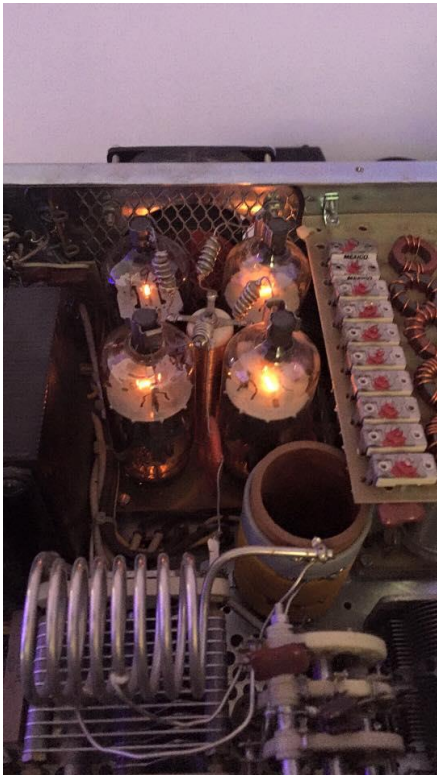
We did have a bit of excitement during all of this. Since we were working in an unfinished attic you have to ensure that you walk ONLY on the floor joists. Chris forgot that just for a moment and while I was getting a reading on the antenna analyzer, I heard a loud crash! I looked up and Chris was kinda gone! Well, not all the way. He was gingerly pulling this leg up through the enormous hole in the drywall ceiling over the garage. Now he has another project!

Check out that site that allows you to design shortened antennas ... they really work well and can be a life saver when you just don't have enough room!

http://www.k7mem.com/Electronic_Notebook/antennas/shortant.html

Hey seriously, does the image below look nice or what? That has to truly pull on the heart strings of some of us old timers & vacuum tube aficionados! Oh the soft glow of filaments illuminating the room with their ethereal magic. Am I not poetic?

This is **Dam Melato's, KB3JSV** latest project. He purchased a vintage Ameritron Linear Amplifier from Jack, KC3JD. It uses four tubes in its output. I was at the club when Dan opened it up the first time.



Two 12 volt batteries connected in series yields 24 volts and smoke! I'm telling the FCC Dan! I think that this question was on the test! I guess that you can't make fun of G5RV's anymore. There's never a dull moment!

I can tell you one thing, they don't make them like that anymore! Dan had to replace two of the tubes. He also has a cracked rear wafer on the band switch but Tim thinks that he can repair it. So get ready down there in Red Lion, Felton, and fawn Grove. Pretty soon you're going to have a mighty strong signal on the band.

Dan's next project is going to be how to tell the difference between a series and parallel circuit, especially when it applies to the application of high capacity storage batteries and their interconnection to radio equipment. It turns out two 12 volt batteries connected in parallel yields 12 volts.

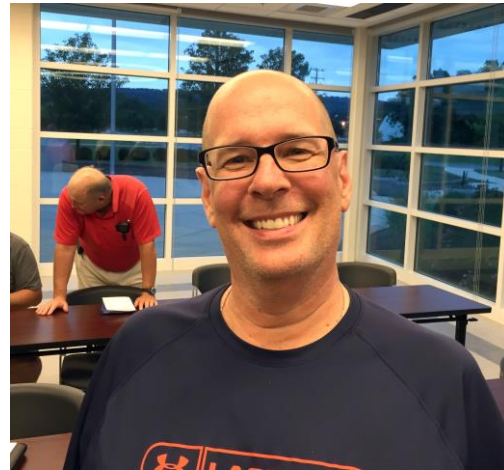
I just don't know who we should talk about next Ahhh yes, Ryan Duke, KC3FSJ. Now here's a new Ham that dangerously reminds me of myself 45 years ago ... before I kept forgetting everything.



Now one thing we did tell him is that "you gotta keep your cool" when your radio comes from HRO... remember Keep your cool .. keep your cool! Uh-Oh!

Ryan was voted into membership in November of last year. I think that he has been up to the club absolutely every single Thursday where there has been someone there. If there is such a thing as a "Born again Ham" I think Ryan is it. Over the course of less than 5 months, he has gone from getting on 2 meters with a Baofeng, to learning how to run digital first on 2 meters, and now on HF. He was with the gang when we built Slim Jim's and on his own built a Tape Measure beam that works great! He has at least one HF antenna up and recently acquired a

Kenwood TS-2000. Within 2 weeks he was making PSK31 contacts all over the world. Ryan is also active on Slow Scan Television (SSTV) and is getting ready to step into SSB and the crazy world of WSJT and other more exotic digital modes.



Oh man ... who is this guy?? Why it's **Tony McMonagle, KC3EED**. What can one say, he started the G5RV craze that is sweeping the nation. He multitasks during the digital net! Within a week of having his first intimate relationship with APRS, he had an I-Gate on line from his house using a Raspberry Pi!

He can listen to JT65 tones and tell who the station is by ear. I think that he can also do this by listening to RTTY. Just last week, he and Eric KB3CNH ran a great test comparing analog FM to Yaesu Fusion digital. He likes to experiment. Every time I talk to him, he is into something new! I think that he enjoys Ham radio ... just a little.



Ah yes ... Dan Shortencarrier, N3EEI. It has been so many years since his name has appeared in this periodical. I used to have so much respect! DX confirmations of 315 or more. Answers through massive pileups to his first call. Getting over that unreasonable fear of lightning ... well never mind about that. But now ... what do you hear in the background when you call Dan? JT65 tones!! Sometimes, JT9. Before too long it will be electronic logging and PSK31!

Oh the Humanity!



**Keystone VHF Club
General Meeting Minutes of
February 4, 2016
By Sandy Goodman, N3ECF – Secretary**

The General Club Meeting held at York County Emergency Management Center was called to order by Pres. Mike, N3VQH, at 19:04. There were 40 members present and 4 member applicants. Applicant Gary Noblit, KC3AKU, introduced himself.

TECHNICAL HAPPENINGS:

Dick, WA3USG, will schedule a new Tech Session for building an inexpensive interface for data communications. He's been experimenting and built one for Ryan, KC3FSJ. February 10 is the next Solder and Slim Jim session.

QSL cards arrived from ARRL along with last year's VHF Contest certificate.

PRESENTATION: Tom Graybill, KB3ETG, provided a presentation on "Active Shooters" that teaches us to "run, hide, fight" during an active shooter incident.

SECRETARY REPORT: Sandy, N3ECF. Steve, WB3EFA, moved to accept the January minutes as published, 2nd by Ed, KB3WQI. Motion carried.

TREASURER REPORT: Anne, KB3ZLJ, reported for January: Income: \$1,489.33; Expenses: \$2,632.43; income included fees for Holiday party plus dues; expenses included the payment for the Holiday party as well as the property insurance and utilities; rent wasn't deposited until Feb 3rd. \$675 transferred to the Trustee account to cover approved spending. Balances: Club CD \$7,645.89 (includes \$1.30 interest); Checking Acct \$1,945.65; Trustee Acct \$932.13; Total \$10,523.67. Kevin, KA0JQO, moved to accept the report; 2nd by Phil, K3JAW. Motion carried.

COMMITTEE REPORTS:

TRUSTEE REPORT – All is quiet due to winter time. Special Thank You to Rich Diem, W3OKU, for plowing out the parking lot during the blizzard. The club has been more active this year than ever before.

TECHNICAL COMMITTEE REPORT - Nothing new being done now. Tim, W3TWB, had a couple of operational procedure recommendations: (1) to avoid chopping of the beginning of your call, pause briefly after keying the microphone before talking, and (2) when operating with a group, turn over the conversation to the next operator so everyone knows who is next.

EMCOMM/PUBLIC SERVICE NEWS – Nothing happening right now. On March 19, the ARWG will be conducting an exercise. The Peach Bottom Drill will be in April. Public Service events will start in April.

VE/ED REPORT - The January testing was cancelled due to no registrations. We do have a registration for the next class. Shrewsbury team will test on February 13.

CONTEST REPORT - We made 187 contacts in 25 grids during the VHF Contest. We did more on 2 meters/440. Upcoming contests include RTTY WPX, and ARRL DX CW.

NEWSLETTER/WEBSITE – Website is up to date. Newsletter went out this morning.

OLD BUSINESS:

Second readings were done for Patrick Hock, W3CNB, Alexander (Smitty) Smith, KC1EWD, Peg Hamm, KB3SCA, Rick Hamm, KB3SCB, and Gary Noblit, KC3AKU. All were voted into membership.

Jack, KC3JD, talked about the estate sale for Millard Martin's equipment. The sale went well and took in \$920. There were two V708A radios that were not sold. The not purchased this evening, they will go to general sale for any amateurs. Jack moved to authorize our Treasurer (Anne) to write a check to Mrs. Martin for the \$920. Tim, W3TWB, seconded. The motion passed.

NEW BUSINESS:

First readings were done for Andrew Hahn, KB3CHT, Mike Weiss, KC3GEM, Christy Gianios, K2HAE, and Charles Golembewski, KC3FAF. Dick, WA3USG, mentioned that these new applicants bring us up to 170 members.

Tim, W3TWB, conducted discussion about the radios we have in use for our operating stations. We currently have a Yaesu FT2000, Kenwood TS2000, a Kenwood TS930S (which was donated), a Yaesu FT920, plus a Yaesu FT897 for the go-kit. Tim suggested selling the TS930 and FT920 (offer to club members first), then use the sale money (anticipate about \$1300) towards another TS2000 (anticipated cost of \$1400). That would put all the operating stations on the same style of radio so operators could move easily to any of the 3 stations. After discussion, Tim moved to sell the TS930S, with beginning offer of \$550, and the TS920, with a beginning offer of \$700, then use the sale money to buy a new TS2000 radio and voice module. Dan, KB3JSV, seconded the motion. Motion carried. The Technical Committee will handle organizing and holding the sales.

It was brought up that we also have a lot of equipment and radios stored in the shed that are not being used. Tim, W3TWB, moved to allow the Technical Committee and Trustees sell the excess equipment. Ed, KB3WQI, seconded the motion. The motion was approved.

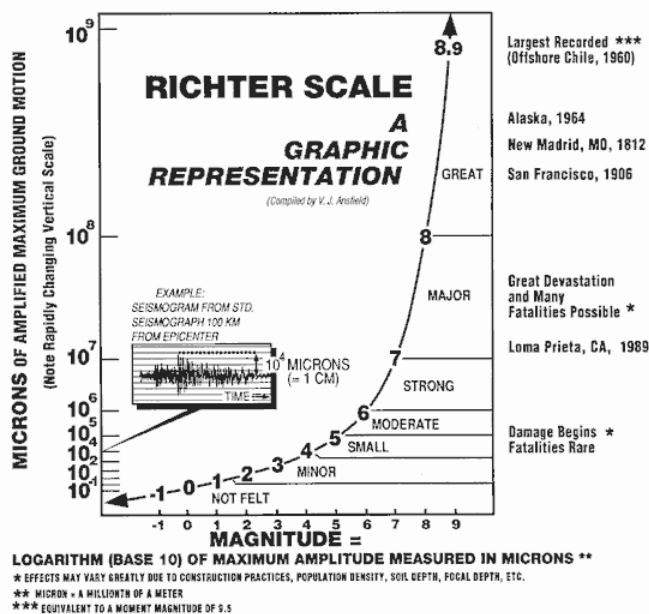
Kevin, KA0JQO, initiated discussion about the 440 repeater and whether we should operate it on analog or digital. Members in attendance were polled to see who had either Fusion or DMR radios. Nine members responded. A meeting will be convened in the near future to discuss this in more detail.

GOOD OF THE CLUB –

Jack, KC3JD, mentioned that we are now calling the NBEMS communications "data" communications rather than digital. We need to ensure that everyone understands we do the data communications via analog mode rather than one of the new digital modes.

50-50 Gary Noblit, KC3AKU, won \$36.

Adjourned at 20:00.



KEYSTONE VHF CLUB OF YORK, PA



Membership Application

Name: _____ Phone: _____ - _____

Address: _____ Callsign: _____ Expires: _____

City: _____ State: _____ Zip: _____ Lic Class: _____

Occupation: _____ E-Mail: _____

Membership Desired

- Full** → Full Club Privileges
\$25.00 annually & one time \$5.00 Application fee
- Family** → Sponsoring members call: _____
Privileges same as Full membership
\$6.25 annually & a one time \$5.00 Application fee
- Associate** → Repeater Support
\$20.00 annually & a one time \$5.00 Application fee

Are you a member of:

- ARRL Y-N
- ARES Y-N
- RACES Y-N
- OCWA Y-N

Special Areas of Interest (circle all that apply)

AM Antenna building ATV Contesting CW Digital (Packet, RTTY, PSK-31, etc)
 DX FM HF QRP Satellites SSB SSTV SWL Tower climbing LF DSP
 UHF/Microwaves VHF Astronomy Photography Other: _____

Application & Dues Mailing Address:

Make checks payable to: *Keystone VHF Club Inc.* Mail to: *PO Box 20143*
York, Pa. 17402-0140

FOR CLUB USE ONLY	
First Reading Date: _____	Second Reading Date: _____
Date voted IN-OUT: _____	Date Dues Collected: _____
Applicant Sponsored by: _____	