SKYVIEW
Skyview Radio Society, K3MJW
K3MJW
2335 Turkey Ridge Road
New Kensington, PA 15068

Q5er – The Official Newsletter of the Skyview Radio Society

** FIRST PLACE NORTH AMERICA **

* ** SECOND PLACE WORLD ** *

There are a lot of really big guns out there who just got shamed by how well this this little gun performed.

Way To Go RTTY Team !!!

2021 is Skyview's 61st Anniversary !!

December 1, 2021

- Multi-Multi Operation
-
- General Study Videos
-
- Skyview 2021 Improvements
-
- Membership Renewal Time
-
- Elecraft Impressions

The Sunspots Are Coming

Keep Trying those Dead Bands !!

Inside this issue:

The Skyview Radio Society Clubhouse is the "Every Tuesday Place" . . .

Something is going on at 'the joint' each and every Tuesday evening, from about 1900 hours to whenever.

See the general schedule of Tuesday events on the Skyview Web Page: http://www.skyviewradio.net

For the latest up-to-date plan, check the Groups.io Reflector at : https://groups.io/g/K3MJW

Directions are on: http://www.skyviewradio.net Guests are always welcome !!

From the Editor

'Articles to a Newsletter' are like 'Wood to a Fire'

PA has now lifted all pandemic restrictions EXCEPT that Mask wearing is still required for our crowded indoor location and at crowded outdoor locations.

Use the Skyview Facilities At Your Own Risk.

Follow https://groups.io/g/K3MJW for updates.

Jody - K3JZD

If you made a tax deductable donation to Skyview in 2021, and want a letter for your records, contact me: k3jzd@arrl.net

Ham Radio is a Contact Sport

(Minimum QSO : 6'-0")

From the Treasurer

We are now into the Winter season where our heated clubhouse is a big membership benefit. We use Propane fuel for our furnace. Unlike Natural Gas, Propane remains quite expensive. Our last Propane Refill cost $1200.

If you go to the clubhouse to spend some time taking advantage of our superior radios and antennas, turn the thermostat up to where it is comfortable for you. Be sure and put it back down before you leave. Consider making a donation by putting a few dollars into the Red Propane Donation container.

If you go to the clubhouse for some other reason, and will only be there briefly, consider the need for you to even turn up the heat. It does not make a whole lot of sense to heat up the place, and then turn the thermostat back down and leave as soon as the building has been heated.

The building and the radios are available at any time to all members who have obtained access permission. Propane is one of our fixed expenses, and is paid for by the membership dues from all of the members. I think that it is fair for the frequent Winter users to kick in a little something during each visit where you turn up the heat to help pay for the Propane bill.

Jody - K3JZD

Skyview Radio Society is recognized by the Internal Revenue Service as a charitable non-profit organization under Section 501(c)(3) of the IRS Code. Donations to Skyview are tax deductible to the extent permitted by law.

Here is another one. Mainly because of the submitted articles and photos.

Not saying it is the last one that I will publish. But it could be . . . . Jody - K3JZD

The book to read is not the one which thinks for you, but the one which makes you think. – Harper Lee

November Business Meeting Minutes

de Don - WA3HGW

Skyview Radio Society
Monthly Business Meeting – November 2, 2021

Call to Order: 7:30 PM by President Marty Newingham, AG3I.

Attending – 23 members: WA3HGW, KC3LHW, KA3HPM, KC3OCC, W3BUW, N3WMC, AG3I, K3JAS, NJ3R, W3IU, AG3U, AB3GY, K3STL, KC3GB, N2MA, KB3LND, K3JZD, AJ3O, N3VXT, WA9QXY, KC3PXQ, W3ZVX, KC3QWF and guest KC3SZJ.

Prior Meeting Minutes: The minutes of the October 5, 2021 meeting were passed out for member review. The President asked if there were any corrections or omissions to the minutes. One change was made correcting the call of WA9QXY. A motion to accept the minutes as corrected was made by KA3HPM and seconded by W3BUW. The motion passed without objection.

Treasurer's Report: Treasurer Jody, K3JZD, passed out the financial report as of 31 October 2021 (attached). Jody provided an overview of the report. The club fixed expenses are good through the end of the year. There were no routine maintenance or capital project expenses. Unallocated funds are good with some income from equipment sales and VE sessions plus some expenses for QSL cards and some radio expenses. A motion to accept the Treasurer's Report as presented was made by KA3HPM and seconded by N3WMC. The motion passed without objection.

Membership Report: Tom, AB3GY, made a motion to open the membership rolls, which was seconded by K3JAS. There are two new membership applications for consideration:

Kaden Bopp, AC3HZ, North Apollo, PA, Kaden passed Technician, General and Amateur Extra at the last VE session. A motion to accept was made by AB3GY and seconded by W3BUW. The motion passed without objection.

Shari Becker, KC3STV, New Kensington, PA. Upgrade to General class at the last VE session.

A motion to accept was made by AB3GY and seconded by KA3HPM. The motion passed without objection.

AB3GY made a motion to close the membership rolls. The motion was seconded by W3BUW. The motion passed without objection. Our membership now stands at 152, which is another record. The membership list as of 31 October 2021 is attached.
Tom, AB3GY noted that membership renewal notices will be sent out this month. New member renewals will be acknowledged with a return letter including a membership card which can be cut-out. The perforated card stock previously used for membership cards is no longer available, so plain paper will be substituted this year.

Radio Officer Report: All radios and equipment are working well at this time. WC3O has installed coax and control cables for future receive only antennas for the 160, 80 and 40 meter bands. He also found a source and ordered TRRS (tip, ring, ring, sleeve) to TRS (tip, ring sleeve) adapters to allow use of the Bose noise cancelling headphones on the Icom radios.

Kitchen Report: The kitchen fund balance is $72. Kitchen supplies are good.

VE Report: The next VE session is November 20. There are presently four license candidates scheduled for the VE session.

Newsletter: The October issue of the Q5er is out. Jody, K3JZD, is looking for newsletter submissions by November 15 for the December issue.

Building Committee: The committee contacted the contractor who built neighbor Diane's garage for a quote. The contractor indicated they are too busy with existing projects right now to consider any buildings with a roof height as high as we need. They may be able to quote for our building by 2022 when they work off their backlog of jobs. No other potential contractors were identified. K3JZD noted he commissioned a plot survey of Skyview property. The stamped survey drawings should be available in about four weeks.

Calendar of Events:
November 6 to 8 – ARRL CW Sweepstakes.
November 20 to 22 – ARRL Phone Sweepstakes.
November 27 to 28 – CQ Worldwide DX Contest - CW
December 4 – National Weather Service Skywarn Awareness Day. NWS station WX3PIT will be in operation from Skyview.
January 22 – Club holiday party at the Delmont Fire Hall, 6 PM. Save the date!

Old Business: Boats, W3BUW, obtained shelving units and copy paper donated to the club by a local corporation. The shelving units are already installed in the new storage shed.

The floor was still open for officer nominations held over from the October business meeting. There were no addi-

tional officer or director nominations. A motion to close the nominations was made by AJ3O and seconded by W3BUW. The motion passed without objection. Since there were no additions to the slate of candidates selected at the October business meeting, a motion to elect the slate as presented was made by KA3HPM and seconded by KC3PXQ. The motion passed without opposition. The new officers and directors are:

President: Scott Gliebe, AC3GB
Vice President: Paul Krystosek, WA9QXY
Secretary: Don Stewart, WA3HGW
Treasurer: Jody Nelis, K3JZD
Radio Officer: Robert Bastone, WC3O
Director 1: Tom Nagy, W3TLN
Director 2: Ron Blobner, NJ3R

Board of Directors Chair: Marty Newingham, AG3I, becomes chair following holding the office of President.

New Business: The new Geochron with updated software package is operating in the radio room. John, K3STL, suggested a Tuesday night meeting and Zoom session to demonstrate all the usefulness and functions of this equipment. John was "volunteered" to make the presentation as he is the one most familiar with the Geeochron's operation.

Jack, K3JAS, has set aside Wednesday evenings at the clubhouse for building, testing and aligning the Phaser kits. This was a club project which started before all of the Covid restrictions went in place. As a group effort, it will provide a good learning experience for our members and decrease the chance of any problems assembling the kits. The phaser kits make a 4 watt single-band transceiver intended for FT8 operation, but possible to use on some other digital modes.

Elmer Night: To be determined at a later date.

Net Report: No net report was available this month.

50/50 Drawing: The total collected was $44. The winner of $22 was Cousin Joe, KC3PXQ.

Meeting Adjourned: A motion to adjourn was made by KA3HPM and seconded by K3JAS. The motion passed without objection. The meeting was adjourned at 8:14 PM.

Respectfully Submitted,

Don Stewart – WA3HGW
Secretary; Skyview Radio Society, Inc.

On-Line General Classes

Cuyahoga Fall Amateur Radio Club (www.cfarc.org) will be holding an online class to prepare you for the FCC Amateur Radio General Class License Exam.

Classes will be held for six weeks (Jan 16 - Feb 20) on Sundays from 1:30 to 4:00 PM (Eastern) via Google Meet and Classroom.

Classes are free. Textbook is responsibility of students.

Before classes begin you will receive emails with information on the textbook we will be using, how to connect to online sessions and other details.

GENERAL CLASS INFORMATION HERE
https://tinyurl.com/27dk25ut

SIGN UP HERE : https://tinyurl.com/27dk25ut

If you have additional questions please email k8zt@cfarc.org or grizgrover@gmail.com.

CW Practice Center

de Bill – W3BWU

Skyview Radio Club has always been known to be an amateur radio club that takes great pride in helping new hams! To help them get their licenses, and become more proficient in the art, science, and sport of ham radio.

One night up at "the joint" several months ago, Bob Bastone, WC3O, and I were talking about the many fine uses of recycled materials we all take advantage of from time to time. Hams have always been known to be scroungers. When we have unused materials lying around, we will always find uses for them!

One of my favorite uses of recycled materials is old cigar boxes and liquor/wine bottles. I have made many desk lamps out of these two items as gifts for people over the years. The wooden cigar boxes also make fine looking project cases for QRP rigs, tube radios and a wide variety of other uses. In many cases the wood is of high quality and refinishes very nicely making very attractive cases. I get mine from Allegheny Smoke Works on Freeport Road. Nice bunch of guys and they always have tons of different shapes, colors and sizes of cigar boxes they gladly give away. I've been there many times and have made cigar box guitars for people also!

I thought a nice desk lamp made from a large Makers Mark whiskey bottle (empty of course!) would make a fine addition as a lamp adding some class to our club's kitchen counter. Well, one thing led to another and we moved into discussing the possibly of adding a CW Morse Code paddle keyer into the lamp base for some CW practice while sitting at the bar!

Many of our members, both new and old timers are again getting more actively involved in CW. This spurt of interest is coming from our contesting activities at the club, and many of our members are doing both SOTA ands POTA activations with CW.

So with a little more discussion over the next week or so, this project morphed into a CW practice center that would support multiple users in a round table method of operation. I designed the unit to support up to 8 individuals with paddle keyers that can plug into the unit, an inboard paddle (made by American Morse) and jacks for straight keys as well.

Someone asked how I would wire up the inputs for the paddles – dots or dashes on the left or right paddles. So, I decided to support the picky CW ops in the group by putting a selector switch on the input of each of the 8 jacks and the internal keyer! Probably overkill, but happy hams are fun hams!!

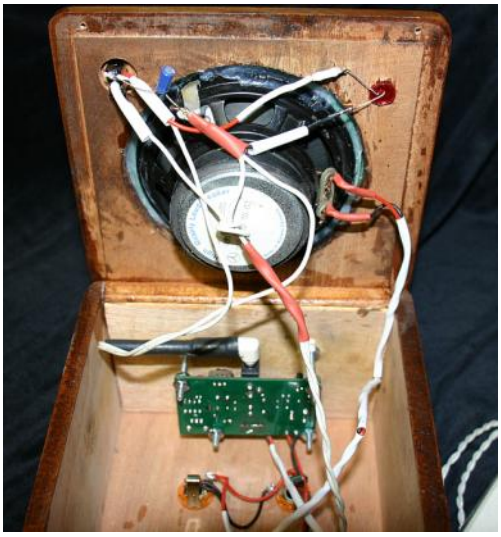
The case/base of the lamp-keyer is made from an imported cigar box made by a company called ACID Cigars. These boxes are a very nice quality Honduran Mahogany (supposedly) and make great project cases. The lamp was made from a large empty bottle of Makers Mark Whiskey. The keyer circuit was provided via Bob Bastone. It was an old Iambic keyer kit, ID-1410 made by Heathkit many years ago. It had come from the estate of silent key N3BPB, Bill Kristoff. With some minor repair and resoldering of cold joints it worked great!

The process was simple. I removed the circuit board and guts from the keyer and remounted them into the cigar box. The front panel from the keyer was the only part of the case that was reused. The project required me to make two side panels of Aluminum to hold 4 each stereo phone jacks and selector switches to plug the keys into. I also machined a round decorative Aluminum bezel for the 3" internal speaker from the keyer, which is mounted on the back of the cigar box. Of course to keep things Heathkit nostalgic to match the front panel, all the side mount plates and bezel were painted Heathkit Hunter Green!

The rest of the project was assembling the lamp and mounting it to the cigar box. This process is simple but requires some care. I had to drill a 3/8 inch hole in the center of the bottom of the bottle for the standard 3/8-27 threaded lamp rod that supports the lamp socket and lamp shade harp. I also drilled a second 1/2 inch hole off to the side on the bottom so I could easily fill the lamp with a filler of my choice, which was a black sand blasting grit I had in my shop called Black Beauty. After filling this hole was then plugged. This process was done carefully with a hand drill and a 3/8" diamond core drill bit. You have to go slow when drilling, lubricate the bit with water and do not apply too much pressure to the drill. The diamond bit cuts quite nicely with minimum pressure applied to the bit. If you have too much pressure when the bit breaks through the hole in the glass, the bottle will shatter! I suggest practicing on a piece of scrap glass or an old bottle first!! The cap of the bottle was a flimsy plastic so I made a new one on my lathe from Aluminum to properly support the lamp socket.

So, the project looked great and worked nicely, but the volume from the original Heathkit speaker and amplifier proved to be too low to be used in a large room with a group of CW operators. This led me to look for an external code practice oscillator/audio amplifier online. I found one on Ebay for $16.00 which fit the bill. Al, N2MA said he had successfully used this board and recommended it. It provided both pitch control and volume control. Upon trying to find a way to incorporate this new board and a much larger speaker (5" diameter) that would handle this board's audio output, it was quickly determined that this extra equipment would never fit into the original cigar box!

Step two was to build a separate speaker case to hold the new board and speaker, again from an ACID cigar box. Again the speaker bezel was Heathkit Green. I incorporated a power switch, a red power LED, two input jacks on the back, one from the keyer/lamp and another to accommodate a straight key. I also put two external speaker outputs we can plug into for external speakers if needed. Of course both volume and tone controls were mounted on top of this new speaker box. This unit works well and provides a lot of power output, to the point where the audio will distort if set too high!



So, all in all, it was a fun project! Not too difficult to build, and the CW center has been getting use at the joint. Hopefully we can schedule CW round table sessions in the future here and have some CW fun!

Bill Samek –W3BUW

Multi-Multi Operation

de Jody – K3JZD

Skyview's 2021 CQ World Wide RTTY WPX award certificate on page 1 shows that Skyview participated in the 'Multi-Operator Multi-Transmitter Class'. According to the CQ Rules:

*Multi-Transmitter (MULTI-UNLIMITED): A **maximum of six transmitted signals**, one per band, at any one time. Six bands may be activated simultaneously. Use a separate serial number sequence for each band. Total output power of each transmitted signal must not exceed 1500 watts.*

Skyview accomplished it with only three transmitted signals, not six, and ended up #1 in North America and #2 in the World. Quite an accomplishment. So what did it take? In addition to a Team of BIC (Butt In Chair) Operators who kept all three of those transmitters going throughout the entire 48 hour period, it took equipment that was setup for the task. If you think that running three high powered transmitters simultaneously while feeding various antennas that are in very close proximity to each other is easy, then you haven't tried to do it.

In my short time as a Skyview member, I have witnessed our Radio Officer making one improvement after another to prep our modest station equipment and antennas to make Skyview a very competitive multi-multi station. All within our modest budget. At the risk of missing something, I will mention the well thought out improvements that I have witnessed our Radio Officer making during the last 7 years:

- Multi-Band Cubical Quad installed on a New (to us) Refurbished Tower
- Rebuilt our Used Multi-Band Yagi Antenna
- Home Brewed Two Full Size 80 Meter Verticals in a "2-Square Array" favoring NE and SW installed (with a Direction Changing Controller)
- Home Brewed 40 Meter Beam installed on a New (to us) Refurbished Tower
- Home Brewed Receiving Antennas installed (with a Steering Controller)
- Several New Single Band and Multi Band Wire Dipoles fabricated and installed
- New Automated Antenna Switching System that will keep Multiple 1500 Watt Transmitters Isolated
- New Automated Band Pass Filters that will handle 1500 Watt Transmitters
- Station Computers updated using Refurbished Computers
- Station Networking updated using Refurbished Gear
- Converted our Event Logging Programs to N1MM+
- Networked our N1MM+ Logging Programs to support a Multi-Multi Operation
- All of the wiring needed to integrate the Antenna Switch and Band Pass Filters to the Radios
- Integrating newer radios as they became available from Estate Sales or Donations
- Installed New Radio Room HVAC System to keep the Operators comfortable.

No small list. But each of those items has contributed to providing our Fine Business Team of Operators with the ability to effortlessly and seamlessly be able to select the best band and the best antenna to use so that they can be the most effective during each hour of these 24 to 48 hour long events.

While Bob-WC3O, our Radio Officer, has put in lots and lots of hours into these improvements, he had a lot of support and assistance from many other club members. As the saying goes, it takes a village. It is not possible to list everyone who assisted and all of their contributions. You know who you are. All Skyview Members owe you all a big Thank You for the time and equipment that you contributed to help make these improvements happen. And since much of the funding for these improvements came from the money that we were able to earn at our annual Swap & Shop events, a big Thank You goes out to all of you who worked at or supported our annual Swap & Shop events.

Skyview is not really a "Contest Club". There are lots and lots of other activities going on at Skyview. But, whenever Skyview does participate in an event, the Multi-Multi facilities that our Radio Officer has created for us, and the Team of Operators who operate the event, tend to put Skyview at, or near the top, of the results list.

It is Membership Renewal Time !!!!

Another year is coming to an end and once again it is time for all Skyview members to renew their commitment for 2022.

We have held the line on our Annual Dues. There is not any increase for any type of membership for 2022.

Membership packets have been mailed to all active members who did not receive one in person or request one via e-mail. For most people, your packet consists of a membership renewal form and a banquet invitation.

However, if you joined as a new member at the August Swap 'N Shop or anytime between then and now, you are already renewed for 2022. Your packet consists of a renewal confirmation and a banquet invitation.

If you haven't received your renewal packet yet, send an e-mail with your name and callsign to me at ab3gy@arrl.net and I can reply with your packet as a PDF attachment.

Why renew? Because Skyview Radio Society has something to offer all hams who want to be involved in the hobby. Here is an abbreviated recap of 2021:

We restarted in-person events with a "COVID Kiss My Butt" party, hosted two Field Day sites, and resumed the annual Swap 'N Shop. We participated in several operating contests (including two first-place wins!), hosted the K3M 13 Colonies special event station, and made an impressive showing at the PA QSO Party.

Members activated many POTA and SOTA sites, both individually and in groups. And speaking of group activities, there were organized road trips to K3LR and DX Engineering, informal socializing around the fire ring and even a star party.

The weekly Zoom events continued, featuring both Skyview members and special guests from across the US sharing their expertise. In addition to our monthly VE sessions, we also held a Technician license class and a commercial radio license testing event. CW practice continued both on the air and via Zoom. Individual members participated in ARES and SKYWARN events and helped with road and trail races throughout the region.

So, whether it is operating, contesting, personal enrichment, public service or just plain fun, Skyview has something for you. The variety of offerings reflects the diverse interests of its members. In other words, your participation is what makes this club great! Renew today !!

Tom Kerr AB3GY
Skyview Membership Chair

June 1956 QST Tidbits

de Cooky - WC3O

Amongst the items in Bob Banna, N3LWP/SK's estate was a June of 1956 QST in very good condition that I picked up.

I was browsing through and enjoying all of the old articles. QST once published brief reports on the happenings in each section. I found the Western PA report on page 88. 1956 is a little before the formation of Skyview Radio Society by a few years, but I thought I might see a mention about the Allegheny-Kiski ARA. No dice.

However, I did find a few interesting notes. They talk about the fact that the Breeze Shooters is now fully incorporated.

Also noted was mention of our very own George, W3ANX (along with his other cronies from the Steel City club) getting new DX-100s! They must have had a quantity discount?

There was a talk about amateur radio on WDUQ. Talk of the Brass Pounders and Modulators. CW practice and more.

Great reading! I'm glad to see things haven't changed that much? Interesting how they leave off the prefix of the callsigns. I assume everyone was a W3?

Zoom In to make this page readable

334, K2IYP 270, W2OE 156, K2LSF 131, DJN 113, JIR 72, D8R 70, AMZ 63, W2FPW 56, K2KXE 54, W2-COB 43, EMW 38, SJV 38, K2KTK 34, W2CUQ 32, RUT 29, KUD 27, RQF 25, OZR 18, FEB 12, K2KNV 9, W2-BKC 8, RJJ 8, K2DG 6. (Feb.) W2FPW 24.

WESTERN PENNSYLVANIA — SCM, R. M. Heck, W3NCD — SEC: GEG. RMs: NRE, UHN, NUG and GEG. PAMs: AER and LXE. The Mon Valley ARC meets the 1st and 3rd Thurs. at 8 P.M. Code practice is conducted on Mon. from 7 to 9 P.M. The Roundtable Net meets Sun. at 1 P.M. on 3980 kc. G. Lundy demonstrated his Panadapter at a recent club meeting. The Breeze Shooters Net, 29 Mc., reports incorporation completed. MUC has a 5100 now. SHT now has an 11-meter beam. SIR has been working DX, such as II, EI, and OEI3. AYB added an 8-meter to his 88. W3UEP/KP4 is working into his home town with ZZQ, his brother. ZCP, a new member, now has an SX-100. CGP also is a new member. PII worked a VU. QYF added audio clipping. UJP worked W7- and KP4-Land with n.f.m. The Cumberland Valley ARC, now an ARRL affiliate, is doing a fine job of public relations with press releases in the Chambersburg newspapers. The main topic at a recent meeting was the AREC by DPC. The Brass Pounders & Modulators RC held a 10-meter ground-wave contest and will hold its Annual Hamfest Aug. 5th. UJP and SIR are working DX. VKS has a Triband ahead of his SX-28. ZUT and TTR are back on 10 meters. ACH has a new KWS-1 on 10-meter s.s.b. NKM is s.s.b. on 10 meters with a B&W. YOA was successful in removing TVI from 21 Mc. From the Steel City ARC RSL, APN, and ANX have new DX-100s. SDV, UUH, and NRQ gave a fine talk on amateur radio over WDUQ. NKM and YDP have new Telrex beams on 10 meters. OKU is working DX on s.s.b. SDV owns a G-66 mobile receiver. MPO, RIK, and NKM are working 40-meter phone with 9CWL. WHY is wrestling with filters to get on s.s.b. The Radio Association of Erie is holding evening work parties in order to rush the completion of the new communications truck. MED, VNC, YKE, WVG, and BFB have completed installation of the equipment and MED reports the wiring harness now is under way. 1ICP, Technical Assistant from Headquarters, spoke at a recent meeting on TVI. The talk was supplemented by slide films. LKJ is happy with the all-band reports received on his new all-band antenna. KKJ soon will be mobile. MED recommends 6-meter operation. BQE is having beam trouble. KVB nears the century mark on 20-meter phone DX. WBA and QWL soon will open a new radio parts store. The Mercer County Radio Association's code classes are conducted weekly by GEG. Mercer County EC, QHS, has made WAS after a long, long time. SYZ has been recommended as e.d. Radio Officer for Sharon. VWZ, a Novice graduate, is using an AT-1 and an HT-18 and has added an SX-100 to his shack. VKD is back from a tour of DX countries. PWN scored 37,350 in the DX Test. ZEW is working DX on 80 meters with QRP rig. WN3ERJ has organized the Pittsburgh Novice Net (PNN) with 25 members and ERJ manager. The net meets Thurs. at 1545 EST on 7162 kc. UTR enjoyed some nice contacts and DX working in the YL/OM contest on c.w. Traffic: (Mar.) W3WIQ 1322, NRE 148, ZEG 90, ZEW 75, UHN 56, YA 51, SIJ 38, KNQ 24, NCD 16, KUN 13, WN3ERJ 12, ERK 8, W3UTR 8, PWN 4.

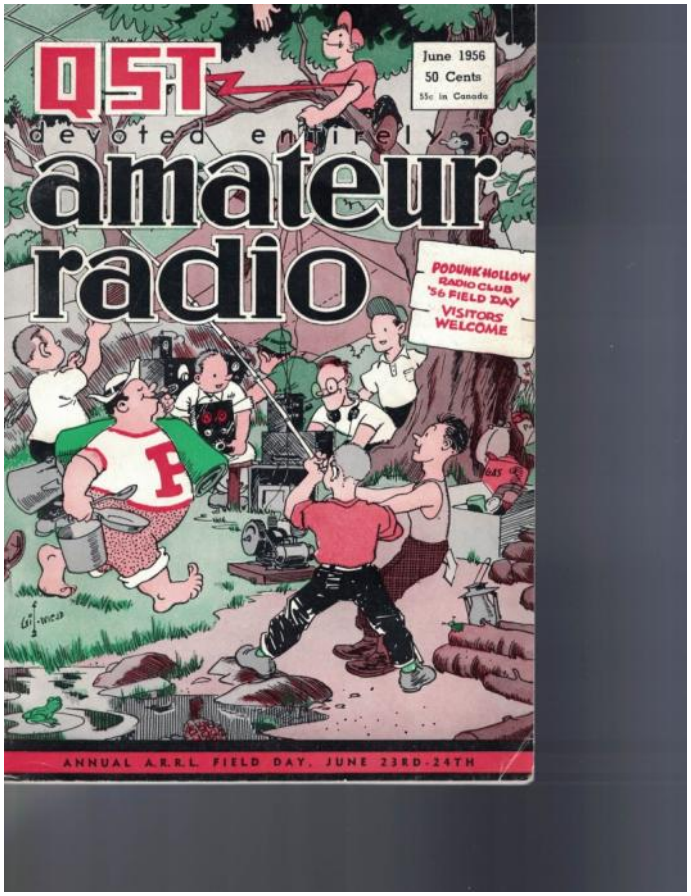
CENTRAL DIVISION

ILLINOIS — SCM, George T. Schreiber, W9YIX — Section Nets: ILN c.w., 3515 kc., Mon. through Fri. IEN, 3940 kc. SEC: HOA. RMs: BUK and CTZ. PAM: UQT. Cook County EC: HPG. By the time you read this, MRC

There is mention of YOA getting his TVI fixed. Is that Ed, WA3YOA? I don't think Ed is old enough to be that ham!

I also enjoyed reading the goins-on of other sections. Interesting reading, at least for me anyway.

I also like the smaller form factor of the old QSTs.



Next time you see someone getting rid of old QSTs (Usually you can't GIVE them away) pick one up and hunt for treasure. I think you'll be glad you did.

Do you still have that DX-100 Geo???

Cooky - WC3O

General Study Videos de Steve - K3SKC

VIDEOS MADE BY Steve Smith K3SKS

This is a link to my General Class videos I put together for KC3TL, Treasure Lake Sportsman's Club Amateur Radio Group.

General Class Study Group Chapter Videos

I try to focus on those technical aspects in the study guide that the new ham will benefit from understanding as they go through the upgrade learning curve.

Anyone is free to use these as they see fit.

We've had a 100% initial exam success rate for both Technician and General Class folks that have gone through our Study Groups.

Any questions, let me know.

Steve Smith K3SKS
S_K_SMITH_75@YAHOO.COM

Ed: These K3SKS Videos follow the Chapters in the ARRL General Class License Study Manual each is best viewed while studying that Chapter and working through the Chapter Questions.

Thanks : Nittany Amateur Radio Club Newsette

Skyview's 2021 Improvements

The continued issues with COVID-19 throttled our 2021 Improvements. However we did manage to check two things off of our 2021 To-Do List :

We got our Handicapped Parking Area in place. While not paved, it is level and is well compacted. Some more rain and some snow should smooth it out even further.

This project was possible due to a generous contributions of funds and materials from Ed - KC3FWD

Joe - AJ3O and Matt - KC3LZH provided machines to get the gravel spread and compacted.

Many others assisted.

Ed: I'm sorry that I am unable to list everyone who assisted with these two projects. I was not always present and/or I failed to take notes as to who all was there assisting. Thank you all.

We have a new storage facility.

Much larger than the old white block building that we once had.

This project was possible due to a generous contribution of funds from Tom - W3TLN.

Joe — AJ3O provided machines to prepare the site.

Many assisted with the concrete pad pour and finishing.

This was a kit that was sorted out and assembled primarily by Marty - AG3I, Cooky - WC3O, and Paul - WA9QXY with assistance from several others.

TRUST YOUR INSTRUMENTS (Mostly…)

de Don - WA3HGW

I was all ready to operate the fall North American SSB Sprint contest on Saturday Evening October 23. My interest was high because a few weeks earlier I received an unexpected email from the Sprint officials informing me I had taken first place, low power, in Pennsylvania for the April running of the Sprint. Attached was a .pdf file to print out a nice certificate.

The SSB sprint is a "small" contest that is a bit different from the typical contest. It only runs for 4 hours, from 00:00 to 04:00 UTC, or 8 PM to midnight EDT. It is single operator only, no spotting or other operator assistance allowed, with three power levels; high, low (up to 100 watts) and QRP. The exchange is pretty simple: The other station's call, your call, sequential serial number, your first name and state, province or country. Also, the contest is limited to just 20, 40 and 80 meters.

The most interesting part of this contest is a way they help level the playing field with their QSY rule. If you call CQ, QRZ or any other means to solicit a contact, you must relinquish the frequency and QSY at the completion of the contact. If you answer a station calling CQ, QRZ, etc, you get to keep that frequency at the conclusion of the contact and then you can call CQ, QRZ, etc. Once you make another contact on that frequency, it's your turn to QSY somewhere else.

Now, I'm coming up on 8 PM, and have my logging program up and running. I heard a few strong stations on 20 meters, so decided to make a few contacts there before moving down to 40 meters. I made one contact on 20, and then tried to make a QRZ at the conclusion of the contact. As soon as I stepped on the foot switch, my Icom IC 7610 shut off. What??? A few seconds later, it rebooted and came back on. Another try, and the same thing happened.

My first thought was could I be getting RF back in the shack that was resetting the radio? I switched to a completely new frequency on 20 and the same thing happened, but it took longer for the radio to come back on, sometimes a few minutes. I switched to 40 and 80 meters and the same thing happened. Well, I've done lots of operating on both 40 and 80, including at 1KW power with no problem.

I found that if I lowered the output from full 100 watt power to around 80% or lower, the radio did not reset and seemed to work OK. What is going on? Naturally, I started thinking of the worst-case scenario. Could there be a problem with the power amplifier section of the 7610? I checked the antenna SWR, and it was fine. I even connected the radio to my dummy load, bypassing all the interconnecting coax jumpers, and the problem persisted.

Needless to say, that was the end of my SSB Sprint operation. I could have switched over to my back-up transceiver, which seemed to be working fine, but I would have to use a hand microphone. I was too bummed out by the thought my IC-7610 might have died and need to be repaired. I defaulted to going upstairs to watch some TV.

Sunday morning, I started doing some troubleshooting. By now, the radio wouldn't even turn on at all. Could it be my 12 volt DC power supply? I looked at the voltmeter on the Astron RS-35A and it indicated about 13.5 volts, which is normal for this one. I also have a small digital voltmeter module plugged into one of the Power Pole connectors on my DC distribution box which was showing about 11.5 to 11.7 volts. Why the difference?

When I tried to turn on the radio, the voltage dropped a little more, closer to 11 volts. I know these transceivers don't like low voltage, so my thoughts turned to a possibly bad power supply. Fortunately, I have a back-up Astron power supply, courtesy of a last-minute purchase at the club Swap-n-Shop a few years ago. The price was right, as the seller was packing up to go home and didn't want to haul that heavy supply home again.

I put a Power Pole pig-tail onto that back-up power supply output, unplugged the 7610 power cable from the distribution box and connected it to that back-up power supply. I was very relived to find the 7610 was back to normal operation once it had full 13.8 VDC power.

The next step was to pull the "bad" power supply off the shelf and substitute the "good" one. Once the power supply was down off the top shelf, I quickly found the cause of the voltage problem. It seems the ¼-20 nut on the positive connection stud had come completely loose. The positive ring terminal on the power cable was just touching the stud and not clamped at all.

No wonder I was getting a nice and solid voltage reading on the power supply meter and a flaky reading on the external digital meter. That should have been my tip-off from the start that the problem was with the supply voltage, and not necessarily at the radio.

I tightened up the nut with a wrench, put the power supply back on the top shelf, and checked things out. Everything was now working normally again.

Why did the nut come loose? The power supply is turned on 24/7, and hasn't been moved from that spot for several years. The heat from the power supply transformer should be pretty constant. Possibly there was a little resistance built up in the connection causing a little heating and cooling which over time caused the nut to back off. Who knows what caused it?

Ultimately, if I believed both voltmeters at the start, it should have let me narrow down the problem right away.

So, what about the "Mostly" in the title? Sometimes the measuring instrument could be bad, which has happened to me. I keep a cheap Radio Shack digital multimeter in the garage to use when working on my cars. I was having a problem with my old MGB missing at high speed. This is often caused by an ignition electrical problem. While looking for the source of the problem, I checked the battery voltage. It was reading around 10 volts, and when the car was running, increased to about 11.5 volts. I expected the battery to be close to 13.8 volts and then when charging about 14.5 volts.

Low voltage to the ignition coil can cause rough running at higher RPMs, so I assumed that could be the cause of the problem. My assumption was the alternator was bad again and was not charging the car's battery. Lucas electrics are renowned to be rather poor.

This was the 3rd alternator on the car over some time, so I choose to replace it with an early Saturn 80 amp alternator, which is almost a direct bolt-in for the old Lucas 35 amp unit. Once the new alternator was installed, I checked the voltage again. To my surprise, the running voltage was still around 11.5 volts.

Wait a minute! Is this brand-new alternator bad? That isn't likely. I got a fresh 9 volt battery, and my garage multimeter measured it at around 6.5 volts. OOPS…

I then got my digital multimeter from the ham shack and checked things again. Now the 9 volt battery read 9 volts, and the car voltage was around 14.5 volts when running. The garage multimeter went directly into the trash can.

Oh well, at least I now have a nice higher power alternator that I can replace from any local auto parts store. I don't remember what the problem ended up being with the MGB. I think it was either a bad rotor or bad condenser in the distributor.

Don Stewart WA3HGW

Elecraft Impressions

de Jody - K3JZD

In August, I received a new Elecraft K4D. I thought maybe I would share some of my initial impressions with you. Not a detailed K4 review – there are lots of those out there. This is just me candidly sharing some of my experiences with and my opinions of the Elecraft radios.

Some of my opinions are based on my having bought a lot more used radios than I have new radios over the years. Thrifty or cheap - whatever you want to call it. I've owned several modestly priced Kenwood and Icom HF radios which were purchased used. I also own an IC-7300 that was purchased new. I got educated in the ins and outs of SDRs (Software Defined Radios) whenever I purchased my inexpensive Softrock RXTX SDR transceivers.

For years I have been saying that the Elecraft line looked really nice and got good reviews, but that it was way beyond my needs and means. Whenever the small portable Elecraft KX3 SDR was introduced, I was doing SOTA Activations. While that KX3 SDR looked quite tempting, I had a perfectly good Yaesu FT-817nd that I was successfully using for my SOTA activations. And that new KX3 SDR was kind of pricey. So, I forgot about it.

Yaesu FT-817 SOTA Configuration

But, then I operated N2GBR's KX3 during a Winter Field Day. I was really impressed with it. Compared to the cost of my FT-817nd along with the costs for my external LDG Z-817 Tuner, my external SOTABeams DSP Filter, and my external Pico Keyer, an Elecraft KX3 was not really a huge increase in cost. After a lot of rationalization and shuffling, a new KX3 radio showed up at my door.

Initially I felt that my KX3 was far too valuable for me to be taking it out into the wilderness to do SOTA Activations. So I kept taking my FT-817 out. But one day whenever there was no risk of wet weather I was going to ride to Mt Davis on my motorcycle to do a SOTA Activation there. My KX3 would pack tighter than my FT-817 and it's accessories. So I took my KX3. I found my KX3 SDR receiver to be much better for the weak signals that I encountered doing Summit to Summit contacts. And my KX3's internal antenna tuner was a lot more convenient to use than the external LDG antenna tuner that I was using with my FT-817. Long story short, my KX3 soon pushed my Yaesu FT-817 aside and my KX3 became my primary SOTA rig.

Elecraft KX3 SOTA Configuration

I also found myself using my KX3 in my shack whenever I was chasing weak SOTA Activators. I had discovered that my KX3 was hearing weak CW signals that my Icom IC-756 Pro III was not hearing. SDRs do have very sensitive receivers.

Whenever the K4 started being hyped, I followed the development. But just out of curiosity. I knew it was going to be priced way out of my comfort zone. And when the pricing was announced, it was.

Whenever Elecraft started taking advance orders for the K4 SDR at the 2019 Dayton Hamvention, I just happened to be sitting on the proceeds from a couple of stock picks that had paid off. Having those unexpected funds sitting there, and with my good experience from using my KX3, I put in a prepaid order for a Dual Receiver K4 (a K4D Model). Could my hanging out with Jack Daniels earlier that day have contributed to my making that brash spur of the moment decision to purchase that very pricey radio? Naaaahh, I don't think so.

That was followed by very lengthy development and FCC acceptance period. Finally the Elecraft K4 radios were being assembled and shipped. I had put my order in right after all of the Dayton orders were entered, so I had a long wait. Eventually K4D Serial #201 showed up at my door. While my KX3 had introduced me to the way that Elecraft does their user interface, this Dual Receiver K4D had a lot more features to deal with. So it took me quite a while to get a feel for where all of the essential settings and controls were located.

The K4 does not come with a big thick printed User Manual. It ships with a very basic "Introduction to the Elecraft K4' printed booklet that explains the purpose of all of the external connections and provides a very high level overview of the front panel controls. The detailed "K4 User Manual" is built right into this radio – it is viewable right on the LCD Screen. That built-in K4 User Manual allows you to do keyword searches, which is awesome. Since the K4 is an upgradeable SDR, there will be software (firmware) updates which will add features, alter the behavior of existing features, or fix bugs. Whenever the K4 gets a software update, that software update will always include a corresponding update to this internal User Manual. So it will always be up to date. Nice – no User Manual Addendum sheets to deal with.

This K4D was replacing my Icom IC-756 Pro III. I pulled my 756 out of its cubby hole and sat it out on my temporary table. After handling the K4, I was surprised at how much heavier the 756 was. I opened my 756 to disconnect my external Panadapter interface cable. Just as I recalled, my 756 was jammed full of circuit boards and interconnecting cable harnesses. All of those parts, and the heavy steel case, is what gives the 756 its weight.

Later, whenever I took my K4D's top cover off to disconnect my cooling fans one at a time to see if one of them was making more noise than the other one, I found that the K4 was so light because it was not very congested inside at all. The width and height of the case seemed to be dictated by the size of the front panel. And the depth seemed to be dictated by the length of the control computer. There are actually very few parts and very little cabling inside of this radio – there is lots of open space in that box.

At that moment, I wondered if I was really wise to have spent that much money on that sparsely populated box. A little buyer's remorse set in. I looked back into my still opened 756 Pro III. I could see that it took a whole lot of engineering, a whole lot of components, and a whole lot of assembly time to produce that 756. I could see the manufacturing costs there. While the K4 line also needed a lot of engineering, it does not have very many components. So the K4 assembly time is surely a small fraction of what that 756 Pro III had required.

For many years I worked for companies that sold computerized control systems to steel mills and railroads. And I finished my career working on computer controlled medical equipment. So I do know that it does take lot of engineering and a lot of man hours to develop real-time control software. With the computer controlled medical equipment that I worked on, the software was developed once, and then gets put into the thousands of hardware boxes that would be sold. There, the goal was to do as much as possible in software to keep down the hardware costs on each of those thousands of boxes. A lower cost to produce allowed setting a lower selling price, which made the units more competitive in that cost sensitive market.

There is lots of similarity whenever mass producing SDR transceivers - develop the software once and then incur a much smaller hardware cost on each radio that is sold. After seeing how sparsely populated my K4D cabinet was, I found myself wondering just how much hardware was actually involved with a Dual Receiver Upgrade (from K4 to K4D). Is it something like 5% hardware and 95% unlocking features in the software?

Icom IC-7300

Icom priced their new IC-7300 SDR transceiver at a lower price point than what their component intense IC-756 Pro III had sold for. I did not see Elecraft doing with this new K4 SDR lineup. The lower production costs for producing a K4 SDR transceiver have not resulted in a lower price for the buyers.

Anyway, I kind of got sidetracked here. Forgive me. As potential Elecraft buyer, you really should consider the Elecraft K4 SDR for the performance that it gives you, and the features that it includes. The Elecraft K4, K4D, and K4HD radios are all high quality, American assembled, boutique radios. Value them based on what they can do, and forget all about stuff like cost to manufacture and profit margins.

I use my K4 a lot for chasing weak CW signals that are coming from SOTA Activators who are running QRP. The K4 receiver's sensitivity, selectivity, filtering, and

low noise level is better than anything else that I currently own. With headphones on, I can turn the volume down to nearly nothing, getting it down to where all of the background noise disappears, and I can still hear a tiny faint, but copyable, CW signal in there. That is a a great DSP algorithm.

I'm only a casual contester, so I am not getting the full benefit of my always active dual K4D receivers. However having the always active dual receiver panadapters did help me whenever I was chasing a DXpedition station who was working split. They made it very easy for me to monitor the activity, see his pattern, and then figure out the best place for me to transmit from.

My antenna/radio switching system that is setup to allow me to connect any one of my antennas to any one of my radios really doesn't allow me to take advantage of the K4's multiple antenna inputs. Maybe some day I will add a dedicated receiving antenna since the K4 is all setup for using one.

While I usually use my K4 on CW, it has provided me with good results whenever I have used it on SSB. The built in sound card worked fine whenever I used it with N1MM+ during a RTTY event. I have always felt that FSK RTTY gets better results than AFSK RTTY, so I appreciated that the K4 has the built in FSK RTTY mode. I run RTTY at 75 watts because of the high RTTY duty cycle and I have not had any trouble making my contacts at that power level while using Search and Pounce.

I have used my K4 on PSK-31 a little - I have done OK whenever I'm using 50 watts. I have also chased some DX with FT8 while using 35 watts. The FT8 frequencies are really jammed up with overlapping competing transmissions nowadays, but I will usually eventually get a contact with whatever DX station I'm calling.

All in all, I have found my Elecraft K4D to be a really good radio. There are many features that I have not fully explored nor found a use for yet. But they are there and waiting

However, there a few little things that I can nitpick at. I think that the two cooling fans that the K4D uses are a little too loud. After my warranty expires I will be replacing them with Noctua fans that are a quieter while still providing the same CFM. I'm surprised that Elecraft is not already using these quieter higher quality fans on this premium radio.

Although the internal speaker is a decent quality speaker, it is kind of tinny sounding because of the light gauge of the steel top cover that it is bolted onto. Adding an external speaker provided a big improvement. Elecraft used 1/4" jacks for the key and the headphone connections, which required me to add 1/8" to 1/4" adapters. The CAT interface is only available via the USB interface. Not a big problem for most, but I would have preferred the option of using a separate CAT connector on the back panel.

Having some controls that are only on the front panel, some controls that are only on the touch display and some controls that are available wither place takes some getting used to. But I have that same issue with my IC-7300. While the K4 has three stacking registers for each Band available to use when using the touch

panel to change Bands, it is still necessary to use the Mode selector once in a while. While the Band selector is on the touch panel, the Mode selector is a button on the front panel. I still look for a Mode selector somewhere on the touch panel before remembering to go to that front panel button.

But, these are all minor items. No radio is perfect. One size does not fit all.

Is the 100 watt Elecraft K4D SDR (which is sold at list price plus a high shipping cost, and with the hand microphone being an additional $79.95 option) worth more than FOUR 100 watt IC-7300 SDRs (that are generally discounted, generally ship free, and include the hand microphone)?

That's is the question that each potential K4D buyer will have to answer for themselves. My business sense tells me that as long as there is a line at Elecraft's door waiting to buy K4 SDRs, Elecraft will continue to sell them at their current list price (which was just raised quite a bit by the way). However, once that line is gone and they get lonely, then I'm under the opinion that there is a whole lot margin available to allow some discounted pricing.

Jody - K3JZD

My Elmer : George Fyler W9JT (SK)

de Paul - WA9QXY

Growing up in the Chicago suburbs during the Baby Boomer era was wonderful, close enough to a great city to take the commuter train to the Loop for shopping at Marshall Fields, great restaurants and not far from a friend's farm for some pheasant and rabbit hunting with my Dad in the fall. But one of the best things, in hindsight, was our neighbor George Fyler.

We would visit there as a family once in a while which, as a kid, was really boring… until George would say something like "Let's go down in the basement and let them stay up here and chat". So my older brother Randall and I would head down to the basement. There was all kinds of stuff there. At first we didn't know what any of it was. Eventually, after hearing it enough times, I started to realize that it was really cool; short wave radio and not just for listening. He could SEND, or rather transmit as well.

Somewhere along the way, Randall got a Hallicrafters S-120 receiver and we could listen at home. We became Short Wave Listeners. We even had QSL cards printed "SWL W9". We'd listen to far away AM stations at night, fill out the card and send it. Sometimes we'd get a card or letter back, acknowledging our report. We often wondered why we could hear far stations at night but not during the day. But hearing was believing. That was fun for a while, but Mr. Fyler could transmit!

My brother got more interested in cars and model airplanes, but I stuck with radio. We had moved a few blocks from George, so I would call and get the OK to visit him. Then I learned that his call sign was W9JT and his ham gear was Collins, which was really expensive, especially when you are ten years old!

I still remember the sound of the stations we would tune in with his 75A4. There's nothing like it. He suggested I get a copy of the Novice version of the ARRL License Manual and a book on learning code. I studied for several months and practiced code until I thought I was ready. He gave me both tests, which I passed with ease. And after an interminable wait, I became WN9QXY.

George was an Electronics Engineer from way back. How did he get to be a ham? Part of it is still a little fuzzy for me, but I remember a few of the stories he would tell me. He said he decided to get into ham radio, so he studied the regulations and took the FCC tests at the Federal Building in downtown Chicago. He modestly bragged that he found an error in a schematic on the Extra exam and they acknowledged that he was correct.

There were all kinds of "Knick knacks" in his shack, or that was what I thought of them. But mementos and trophies describe them better. There was a fancy piece of wood on a shelf with a metal cylinder on it. Most of it was finely machined but the rounded top was all scarred. I finally asked what it was. "Oh, yes, that was the top of the Empire State Building in 1936".

Huh? WHAT? George was an electronics engineer with General Electric back then. They had installed some or all of the broadcast equipment on the building. The station using that antenna indicated to GE that there was a problem. Mr. Fyler was sent to figure it out. He determined that the antenna was too long. They got it cut to the right length and all was fine. As a thank you, they gave him the top 6 inches of it mounted on a nice piece of wood and there it sat for decades. The scars on top: from lightning.

He showed me several thick three ring binders. I remember a series of photos of equipment racks. He pointed to one with five or six racks and proudly said it was one of the first prototype military radar systems he had worked on. Subsequent photos showed fewer racks and George would reminisce about the improvements that permitted them to have the same functionality with fewer parts. He went on to say that they were too big for any sort of portable use and were deployed on Navy ships which used them very effectively.

That was the extent of what I knew about it until a conversation with my brother in which I mentioned this article that I was planning to write. Randall recounted a story to fill in a big gap in George's career.

Late one night in 1939 or so, several large dark sedans pulled up to their house and a few serious looking fellows walked up and knocked on the door until the lights came on and George opened the door. After Government credentials were shown and examined he was told to pack enough clothing and necessities for a long term stay.

George was whisked off to an undisclosed island off the east coast and spent the better part of the World War II on the team taking radar from the initial prototypes to workable systems for use onboard ships. I recall reading that the Brits got prototypes working and brought them to the US Government for fear that the Nazis would invade and capture them. George's obituary provided the detail that he is credited with developing the ability for the radar to determine the elevation of a target.

Other notebooks held patents that he worked on including some of the first transistor color TV circuits.

I spent my junior year of college in an exchange program at Waseda University in Tokyo Japan. I found the school radio club and I was able to borrow a rig and got help putting up an antenna at my host family's home. Yes, they were incredibly tolerant of this crazy Gaijin.

It was fun operating from such a far flung location. I must admit I don't remember how, or even if, I got official permission to operate. The club was working a DX contest one weekend and I visited their shack. While admiring the operation, I heard a familiar voice running a pileup. I motioned that I wanted to use the mic and said "W9JT this is JH1YDT, George, this is Paul". He immediately responded, we got the contact and a little chit chat. The club members look on in astonishment. I did too, thinking "… now what are the chances that, at the very moment I get here, he is on the air?"

One more anecdote. George told me a story about finding a lost satellite in the late 1950s or early 1960s. He read a news report about one of the first satellite launches which said that the controllers lost contact with the satellite and presumed that it was lost. He did some research and found it's transmit frequency and went to work.

Sometime later he heard it. Then he heard it on another pass to confirm. He called all the government offices he could think of, but they brushed him off. How could some bloke in the Chicago suburbs find it when we, the government, could not?

He called the local newspaper told them his story. They sent a reporter to interview him. They made an audio recording of it and the newspaper arranged a phone number for the public to listen to it. Word eventually got to the right people in charge of the satellite who confirmed that it was indeed a recording of that satellite's telemetry. They got the orbital information from George and took it from there. It must have felt good to finally be vindicated.

What did George enjoy about Ham Radio? DXing! Honor Roll status started in the late 1960s and topped out at 318 in 1977.

My big regret is that I did not stay in closer touch with George. I remember in the late 1970s excitedly telling him about the first computer that I built (Altair 8800, which I still have) and how I was going to use it. He was not impressed, probably due to my inability to describe and explain the concepts that I found so fascinating. After all what does a DXer need an accounting machine for? He might have liked the program that I wrote to send and receive CW, but that was later. I do wish I had kept a copy.

I miss you George, thank you for giving me such a good start in the hobby. I'm sure you would be proud to know that I finally passed my Extra exam.

Paul Krystosek, WA9QXY

Welcome New Members !!

Welcome the following Skyview Radio Society Members who have joined us since publishing the October 2021 newsletter:

Kaden Bopp - AC3HZ - North Apollo

Sharon Becker - KC3STV - New Kensington

Remember that something is going on up at 'the joint' every Tuesday. Sign up for the K3MJW Groups.io Reflector to get the latest news and event announcements by email.

If you are a reader who is interested in becoming a Skyview member, then go to: http://www.skyviewradio.net/ for information.

If you are a reader who is not yet a ham, and you are interested in becoming a ham, , then go to: http://www.skyviewradio.net/ for information.

This Box is Empty

Skyview Radio Society Roster as of 30 NOV 21

NM3A	WA3HGW	K3MJ	K3SBE
AD3AD	KB3HPC	N3MRU	KC3SDJ
KB3APD	KA3HPM	KS3N	KC3SKX
NAØB	K3HSE	G4NFS	KB3SOU
WI8B	KB3HXP	KB3NSH	K3STL
W3BUW	AG3I	AJ3O	KC3STV
KF3C	KC3IIO	WC3O	KB3SVJ
K2CI	WA3IKQ [SK]	KC3OCA	KC3TEX
K3CLT	W3IU	KC3OCB	WV8TG
K3DCG	K3JAS	KC3OCC	N3TIN
KC3DIA	KA3JOU	K3OGN	N3TIR
KC2EGL	ND9JR	N3OIF	W3TLN
KC3EJC	K3JZD	KB3OMB	N3TTE
AB3ER	KC3KEI	NK3P	AG3U
N3ERW	WA3KFS	NX8P	NS3U
K3ES	KB3KHR	K3PC	N3UIW
KC3EVT	ACØKK	KC3PEM	W3UY
KB3EYY	N3KNB	KC3PIM	KX3V
AC3EZ	K3KR	K2PMD	K3VRU
WB3FAE	W4KV	KE3PO	N3VXT
KC3FEI	KC3KXZ	KC3PSQ	W3VYK
K3FKI	WE3L	N3PUR	N3WAV
KC3FWD	WA3LCY	KC3PXQ	K3WM
AC3GB	KC3LHW	WQ3Q	N3WMC
N2GBR	W3LID	KC3QAA	K3WWP
AC3GE	KØLIN	KC3QIR	N3XF
KC3GIL	WB3LJQ	KC3QWF	KB3YJQ
KC3GIN	KG4LLQ	WA9QXY	W3YNI
KC3GPM	KB3LND	NJ3R	W3YNX
K3GT	K3LR	K3RAW	WA3YWU
AB3GY	KC3LRT	K3RMB	K3ZAU
KC3GZW	AB3LS	KC3RPP	W3ZVX
NC3H	KC3LZH	W3RRK	
NY9H	N2MA	I2RTF	
WD3HAY	KC3MBM	KD3RVR	
WB3HFP	N3MHZ	KQ3S	

Notes: Only Call Signs are being published. Refer to QRZ.COM for more information. (Unable to publish those without Call Signs.)

Kul - Links

Jody - K3JZD

There is lots of stuff out on the Internet… Some of it can brighten your day. Some of it can educate you.

I can't really copy and past it all in here. But, I can point you at some of it . . . . .

Work HF ? You might be interested in this dynamic real-time snapshot of the MUF (Maximum Usable Frequency) here in PA and in the rest of the world. Gives you a quick look at what to expect on the DX Bands

https://prop.kc2g.com/

Here's a very useful link for you IC-7300 Owners
https://www.k-state.edu/ksuarc/IC-7300.html

I'll consider any Kul - Links that you find.
Email then to me at: K3JZD AT ARRL DOT NET
They might just end up in the next issue

Previous Issues

Previous Issues of the Q5er are available at

http://www.nelis.net

Next Newsletter will be February 1, 2022
Closing Date For Submissions : Jan 15, 2022
K3JZD AT ARRL DOT NET

Become Well Known Publish in the Q5er

The Q5er goes to other clubs and is available to all on our web site.

Submissions to : K3JZD AT ARRL DOT NET

>>>>>> WARNING <<<<<<

An Alarm System has been installed up at the joint. Do Not go in there on your own until you learn how to disarm and rearm it.

**** Skyview VE Testing ****

For Testing Dates, See :
http://www.arrl.org/find-an-amateur-radio-license-exam-session
Time: Usually 8:15 AM

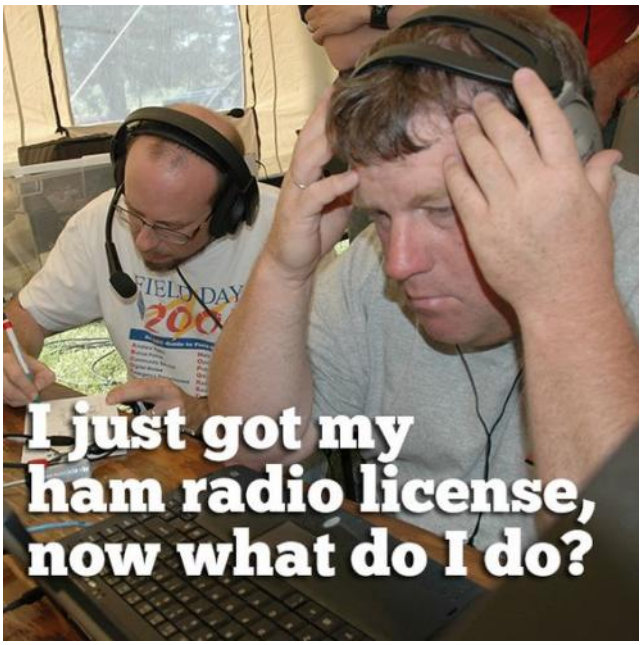
Location: Skyview Clubhouse Meeting Room
2335 Turkey Ridge Rd
New Kensington PA 15068-1936

Contact: William C. Dillen
(724) 882-9612
Email: bdillen@comcast.net

Please E-Mail or call to register!!!
While walk-ins are accepted, the exam session may be cancelled if no candidates are scheduled.

Q5er Editor & Publisher: Jody Nelis - K3JZD

email your comments and article submissions to: **K3JZD AT ARRL DOT NET**



That's Easy . . . .

Come up to the Skyview Clubhouse on any Tuesday and ask !!!

All General Information about the Skyview Radio Society is at http://www.skyviewradio.net

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Is this how your dining room looks ??

Send in pictures of your Ham Shack